Panasonic

Product Number : PT-**CX300** Product Name : Ultra Short-Throw DLP[™] Projector

FILE

S P E C

Specifications

Power supply 100-240 V AC, 50/60 Hz Power consumption 340 W Power consumption 0,50 W when stauber wooe set to eco,*1 6.0 W when stauber wooe set to reco,*1 6.0 W when set to reco,*1 6.0 W when stauber wooe set to reco,*1 6.0 W when set to reco,*1 6.0 W whe	Main unit		
			100–240 V AC, 50/60 Hz
DLP™ chip Pael size 14.0 rm (0.55 inches) diagonal (4:3 aspect ratio) DLP™ chip × 1, DLP™ system Display method DLP™ chip × 1, DLP™ system Lens Fixe(0.44:1 ftrow ratio), manual focus, F 2.6, f 5.27 mm Lamp 1.52-2.29 m (60 -90 inches) diagonal), 4:3 aspect ratio Screen size 1.52-2.29 m (60 -90 inches) diagonal), 4:3 aspect ratio Colors Full color (16,777,216 colors) Brightness** 3,100 lumes (LMP POWER: NORMAL) Contrast** 8,0001 (full on/oft, During RGB signal input, LMP POWER: NORMAL) Contrast** 1,024 × 768 pixels (Input signals that exceed this resolution will be converted to 1.024 × 768 pixels) Scanning frequency HDM ftr. 15 kHz -100 kHz, fr.24 Hz-120 Hz, dot clock: 162 MHz or lower YBPR (YCsCa) 525i (4800): ft 31.55 kHz; fr 60 Hz, Scanning frequency HDM 525i (4800): ft 31.55 kHz; fr 60 Hz, YBPR (YCsCa) 525i (4800): ft 31.55 kHz; fr 60 Hz, 525i (4800): YBPR (YCsCa) 525i (1080)/500: ft 31.55 kHz; fr 60 Hz, 525i (1080)/500: ft 31.55 kHz; fr 60 Hz, YBPR (YCsCa) 125 (1080)/500: ft 31.55 kHz; fr 60 Hz, 525i (4800): <t< td=""><td>Power consumption</td><td></td><td>340 W</td></t<>	Power consumption		340 W
DLP™ chip Panel size 1.4.0 mm (0.55 inches) diagonal (4:3 aspect ratio) Display method DLP™ chip × 1, DLP™ system Fixed Fixed (0.44:1 throw ratio), manual focus, F 2.6, f 5.27 mm Lamp 758, d52 (1.024 × 768) pixel Screen size 1.52-2.29 m (60-90 inches) diagonally, 4:3 aspect ratio Colors Full color (16, 77, 216 colors) Brightness** 80% Contrast** 80% Scanning frequency HDMI NESOLUTO 1.024 × 768 pixels Video/SCR 525 (480): Scanning frequency HDMI YBePR (YCsCR) 525 (480): Scanding frequency HDMI YBePR (YCsCR) 525 (480): Scanding frequency HDMI YBePR (YCsCR) 525 (480):			(0.5 W when standby mode set to ECO ,*1 6.0 W when standby mode
$ \begin{array}{ccccccccccccccccccccccccccccccccccc$			set to NETWORK.)
Pixels 766.432 (1.024 × 768 pixels Lang 280 W UHM lamp × 1 Screen size 280 W UHM lamp × 1 Screen size 510 olor (16,77,216 colors) Brightness** 3.100 lumens (LAMP POWER: NORMAL) Center-to-corner uniformity** 80% Contrast** 3.000:1 (full on/off, During RGB signal input, LAMP POWER: NORMAL) Center-to-corner uniformity** 80% Contrast** 1.024 × 768 pixels (Input signals that exceed this resolution will be converted to 1,024 × 768 pixels). Scanning frequency HDMI fit 15 kHz-100 kHz, fr: 24 Hz-120 Hz, dot clock: 162 MHz or lower YPsPR (YCBCR) 525i (4800): fit 15.75 kHz; fv 60 Hz, fr: 24 Hz-120 Hz, dot clock: 162 MHz or lower YPsPR (YCBCR) 525i (4800): fit 3.15 kHz; fv 60 Hz, fr: 24 Hz-120 Hz, dot clock: 162 MHz or lower YPsPR (YCBCR) 525i (4800): fit 3.15 kHz; fv 60 Hz, fr: 24 Hz-120 Hz, dot clock: 162 MHz or lower YPsPR (YCBCR) 525i (4800): fit 3.15 kHz; fv 60 Hz, fr: 24 Hz-120 Hz, dot clock: 162 MHz or lower YPsPR (YCBCR) 525i (4800): fit 3.15 kHz; fv 60 Hz, fr: 24 Hz-120 Hz, dot clock: 162 MHz or lower YPsPR (YCBCR) 525i (4800): fit 3.15 kHz; fv 60 Hz, fr: 24 Hz-120 Hz, dot clock: 162 MHz or lower YPsPR (YCBCR) 125 (1080/500): fit 3.15 kHz; fv 60 Hz, fr: 24 Hz-120 Hz, dot clock: 152 HIB0/50 Hz; fv 60 Hz, fr: 25 (1080/50): <t< td=""><td>DLP™ chip</td><td>Panel size</td><td></td></t<>	DLP™ chip	Panel size	
Lens Fixed (0.44.1 throw ratio), manual focus, F 2.6, f 5.27 mm Lamp 280 W UHM lamp × 1 Screen size 5.2-2.29 m (6090 inches) diagonally, 4:3 aspect ratio Colors Full color (16,777,216 colors) Brightness** 3,100 lumens (LAMP POWER: NORMAL) Center-to-corner uniformity** 80% Contrast** 8,000:1 (full on/off, During RGB signal input, LAMP POWER: NORMAL) Resolution 1,024 × 768 pixels. (Input signals that exceed this resolution will be converted to 1,024 × 768 pixels.) Scanning frequency HDMI fr: 15 kHz-100 kHz, fr: 24 Hz-120 Hz, dot clock: 162 MHz or lower YPBPR (YCBCR) 525i (480)i: fr 15.75 kHz; fr: 06 Hz, 52 KHz Sc25 (576)i: fri 31.25 KHz; fr: 06 Hz, 52 KHz, 162 KHz 525 (720)/50p: Sc25 (576): fri 31.25 KHz; fr: 06 Hz, 75 O (720)/50p: fri 300/501: Sc25 (576): fri 31.25 KHz; fr: 06 Hz, 75 O (720)/50p: fri 45.05 KHz; fr: 50 Hz, 1125 (1080)/501: Sc25 (576): fri 15.75/15.63 kHz; fr: 50 Hz, 1125 (1080)/501: fri 21.25 (1080)/501: Sc26 (S76): fri 55.75/15.63 kHz; fr: 50 Hz, 1125 (1080)/501: fri 21.25 (1080)/501: Sc25 (S76): fri 31.55 KHz; fri 50 Hz, 1125 (1080)/501: fri 21.25 (1080)/501: Sc26 (S76): <td></td> <td></td> <td></td>			
Lamp 280 W UHM lamp × 1 Screen size 1.52-2.29 m (60 -90 inches) diagonally, 4:3 aspect ratio Colors Full color (16,777,216 colors) Brightness** 3,100 lumens (LAMP POWER: NORMAL) Center-to-corner uniformitry* 8,000:1 (full on/off, During RGB signal input, LAMP POWER: NORMAL) Resolution 1,024 × 768 pixels (Input signals that exceed this resolution will be converted to 1,024 × 768 pixels.) Scanning frequency HDMI fr: 15 kHz-100 kHz, fr: 24 Hz-120 Hz, dot clock: 162 MHz or lower YPBPR (YCsCA) 255i (480): fr 15.75 kHz; fv 60 Hz, 625i (576i): G25i (576i): fr 15.75 kHz; fv 60 Hz, 625i (576i): fr 31.50 kHz; fv 50 Hz, 750 (720)/500; VPBPR (YCsCA) 255i (480): fr 45.05 kHz; fv 50 Hz, 750 (720)/500; V125 (1080)/500: fr 43.50 kHz; fv 50 Hz, 750 (720)/500; fr 43.50 kHz; fv 50 Hz, 750 (720)/500; V125 (1080)/500: fr 43.50 kHz; fv 50 Hz, 750 (720)/500; fr 43.50 kHz; fv 50 Hz, 750 (720)/500; V126 /S-Vide0 ir 15.57 kHz; fv 60 Hz, 750 (720)/500; fr 43.50 kHz; fv 50 Hz, 750 (720)/500; V126 /S-Vide0 ir 15.57 kHz; fv 60 Hz, 750 (720)/500; fr 43.50 kHz; fv 50 Hz, 750 Hz; 750 Hz; 750 Hz; 750 (720)/500; Segton correction rater Coling/floor, fro-trecompatible, Deep color compatible 5525		Pixels	
Screen size 1.52-2.29 m (60-90 inches) diagonally, 4:3 aspect ratio Colors Full color (16,777,216 colors) Brightness** S000 (16,777,216 colors) Brightness** S010 lumons (LAMP POWER: NORMAL) Centrast** 80% Contrast** 80% Scanning frequency HDMI fr:15 kHz-100 kHz, fr:24 Hz-120 Hz, dot clock: 162 MHz or lower S256 (460): fr:15 kHz-100 kHz, fr:24 Hz-120 kHz, dot clock: 162 MHz or lower YPsPR (YCsCn) 525 (460): fr:15 kHz; fr:06 Hz, dot clock: 162 MHz or lower S250 (720)/50p: fr:15 kHz fo:0 kHz, fr:06 Hz, fr:0 kHz, fr:06 Hz, dot clock: 162 MHz or lower S250 (460): fr:15 fo:0 kHz; fr:06 Hz, fr:0 kHz, fr:0 kHz, fr:06 Hz, fr:0 kHz, fr:0 kH			
Colors Full color (16,777,216 colors) Brightness** 3,100 lumens (LAWP POWER: NORMAL) Contrast** 80% Contrast** 8,000:1 (full on/off, During RGB signal input, LAMP POWER: NORMAL) Resolution 1,024 × 788 pixels (Input signals that exceed this resolution will be converted to 1,024 × 768 pixels.) Scanning frequency HDMI fH: 15 kHz-100 kHz, fr: 24 Hz-120 Hz, dot clock: 162 MHz or lower YPsPR (YCsCR) 525i (480)i fH 15.75 kHz; fv 60 Hz, 625i (576)i Scape (480p) fH 15.83 kHz; fv 50 Hz, 750 Hz, 750 (720)/50p; fH 31.50 kHz; fv 60 Hz, 625i (576)i fH 15.81 kHz; fv 60 Hz, 625i (576)i Scape (480p) fH 37.50 kHz; fv 60 Hz, 625i (1400); fH 31.50 kHz; fv 60 Hz, 625i (576); fH 31.25 kHz; fv 60 Hz, 625i (576); fH 31.25 kHz; fv 60 Hz, 625i (576); fH 31.50 kHz; fv 50 Hz, 750 (720)/50p; fH 37.50 kHz; fv 50 Hz, 752 (125 (1080)/50p; fH 57.50 kHz; fv 50 Hz, 752 (125 (1080)/50p; fH 57.50 kHz; fv 50 Hz, 752 (125 (1080)/50p; fH 57.50 kHz; fv 50 Hz, 7125 (1080)/50p; 750 (720)/50p, 750 (72	•		•
Brightness** 3,100 lumens (LAMP POWER: NORMAL) Center-to-corner uniformity** 8,000:1 (full on/off, During RGB signal input, LAMP POWER: NORMAL) Resolution 1,024 × 768 pixels (Input signals that exceed this resolution will be converted to 1,024 × 768 pixels.) Scanning frequency HDMI fit 15 kHz-100 kHz, fv: 24 Hz-120 Hz, dot clock: 162 MHz or lower YPePR (YC8CR) 525i (480); fit 15.75 kHz; fv 60 Hz, fv: 24 Hz-120 Hz, fv: 60 Hz, fv			
Center-to-corner uniformity** 80% Contrast** 8,000:1 (full on/off, During RGB signal input, LAMP POWER: NORMAL) Resolution 1,024 × 768 pixels (Input signals that exceed this resolution will be converted to 1,024 × 768 pixels.) Scanning frequency HDMI H1: 1k:15 kHz-100 kHz, fv: 24 Hz-120 Hz, dot clock: 162 MHz RGB fh: 15 kHz-100 kHz, fv: 24 Hz-120 Hz, dot clock: 162 MHz or lower YPBPR (YCaCR) 525i (480)): Kepsion fh: 15 kHz-100 kHz, fv: 24 Hz-120 Hz, dot clock: 162 MHz or lower YPBPR (YCaCR) 525i (480)): Fi: 15 kHz-100 kHz, fv: 24 Hz-120 Hz, dot clock: 162 MHz or lower YPBPR (YCaCR) 525i (480)): Fi: 15 kHz-100 kHz, fv: 04 Hz,			
Contrast** 8,000:1 (full on/off, During RGB signal input, LAMP POWER: NORMAL) Resolution 1,024 × 768 pixels. (Input signals that exceed this resolution will be converted to 1,024 × 768 pixels.) Scanning frequency HDMI fH: 15 kHz-100 kHz, fv: 24 Hz-120 Hz, dot clock: 162 MHz or lower YBPR (YCBCR) S25i (480)i: fH 15.75 kHz; fv: 00 Hz, 625 (480)i: fH 15.75 kHz; fv: 00 Hz, 625 (480)i: Sc25 (480)i: fH 15.75 kHz; fv: 50 Hz, 625 (576)i: fH 15.75 kHz; fv: 50 Hz, 625 (576)i: fH 31.50 kHz; fv: 50 Hz, 750 (720)/60pi: Sc25 (480)i: fH 45.00 kHz; fv: 50 Hz, 750 (720)/60pi: fH 31.50 kHz; fv: 50 Hz, 750 (720)/60pi: fH 45.00 kHz; fv: 50 Hz, 750 (720)/60pi: Sc25 (576)i: fH 31.50 kHz; fv: 50 Hz, 750 (720)/60pi: fH 45.00 kHz; fv: 60 Hz, 750 (720)/60pi: fH 45.00 kHz; fv: 60 Hz, 750 (720)/60pi: Sc25 (576)i: fH 31.50 kHz; fv: 50 Hz, 750 (720)/60pi: fH 45.00 kHz; fv: 60 Hz, 750 (720)/60pi: fH 45.00 kHz; fv: 60 Hz, 750 (720)/60pi: Sc25 (1800)/50i: fH 28.13 kHz; fv: 50 Hz fH26 (1800)/60i; fH 28.13 kHz; fv: 50 Hz fH26 (1800)/60i; fH 28.13 kHz; fv: 60 Hz Sc25 (1800)/50i: fH 52.55 kHz; fv: 50 Hz fH125 (1080)/50i; fH 56.25 kHz; fv: 50 Hz fH26 (1800)/60i; fH 28.13 kHz; fv: 50 Hz	•	+1/*2	
Resolution 1,024 × 768 pixels (Input signals that exceed this resolution will be converted to 1,024 × 768 pixels.) Scanning frequency HDMI fH: 15 kHz-100 kHz, fv: 24 Hz-120 Hz, dot clock: 162 MHz RGB fH: 15 kHz-100 kHz, fv: 24 Hz-120 Hz, dot clock: 162 MHz or lower YPBPR (YC8CR) 525i (480)): fH 15.75 kHz; fv 50 Hz, fv: 24 Hz-120 Hz, dot clock: 162 MHz or lower YPBPR (YC8CR) 525i (480)): fH 15.75 kHz; fv 50 Hz, fv: 44 Hz-120 Hz, dot clock: 162 MHz or lower YPBPR (YC8CR) 525i (480)): fH 31.50 kHz; fv 50 Hz, fv: 44 Hz, fv: 50 Hz, fv: 460 Hz, fv: 750 (720)/50p: fH 31.50 kHz; fv 50 Hz, fv: 50 (720)/50p: fH 37.50 kHz; fv: 50 Hz, fv: 750 (720)/50p: fH 27.50 kHz; fv: 50 Hz, fv: 1125 (1080)/60p: fH 67.50 kHz; fv: 50 Hz, fv: 1125 (1080)/60p: fH 67.50 kHz; fv: 50 Hz, fv: 1125 (1080)/60p: fH 67.50 kHz; fv: 50 Hz, fv: 1125 (1080)/60p: fH 67.50 kHz; fv: 50 Hz, fv: 1125 (1080)/60p: fH 67.50 kHz; fv: 50 Hz, fv: 1125 (1080)/60p: fH 56.25 kHz; fv: 50 Hz, fv: 1125 (1080)/60p: fH 56.25 kHz; fv: 50 Hz, fv: 1125 (1080)/60p: fH 56.25 kHz; fv: 50 Hz, fv: 1125 (1080)/60p: fH 56.25 kHz; fv: 50 Hz, fv: 1125 (1080)/60p: fH 56.25 kHz; fv: 50 Hz, fv: 1125 (1080)/60p: fH 56.25 kHz; fv: 50 Hz, fv: 1125 (1080)/60p: fH 56.25 kHz; fv: 50 Hz, fv: 1125 (1080)/60p: fH 56.25 kHz; fv: 50 Hz, fv: 1125 (1080)/60p: fH 56.25 kHz; fv: 50 Hz, fv: 1125 (1080)/60p, fr: 57.56 kHz; fv: 50 Hz, fv: 50/60 Hz, fv: 1125 (1080)/60p, fr: 57.56 kHz; fv: 50 Hz, fv: 1125 (1080)/60p, fr: 57.56 kHz; fv: 50 Hz, fv: 1125 (1080)/60p, fr: 57.56 kHz; fv: 50 Hz, fv: 1125 (1080)/60p, fr: 57.56 kHz; fv: 50 Hz, fv: 1125 (1080)/60p, fr: 57.56 kHz; fv: 50 Hz, fv: 1125 (1080)/60p, fr: 57.56 kHz; fv: 50 Hz, fv: 1125 (1080)/60p, fr: 57.56 kH		ty	
Scanning frequency HDMI h:: 15 kHz-100 kHz, h: 24 Hz-120 Hz, dot clock: 25 MHz-162 MHz RGB h:: 15 kHz-100 kHz, h:: 24 Hz-120 Hz, dot clock: 25 MHz-162 MHz YPePR (YCeCR) 525 (4800): h: 15.5 kHz; fv 60 Hz, 625 (5761): 625 (5762): fr 15.63 kHz; fv 50 Hz, 525 (4800): h: 31.50 kHz; fv 50 Hz, 750 (720)/500: 760 (720)/500: fr 43.50 kHz; fv 50 Hz, 750 (720)/500: fr 43.50 kHz; fv 50 Hz, 750 (720)/500: 1125 (1080)/501: fr 43.75 kHz; fv 50 Hz, 750 (720)/500: fr 42.70 kHz; fv 50 Hz, 1125 (1080)/501: 1125 (1080)/501: fr 23.75 kHz; fv 60 Hz, 750 (720)/500: fr 24.70 kHz; fv 50 Hz, 1125 (1080)/501: 1125 (1080)/501: fr 23.75 kHz; fv 60 Hz, 1125 (1080)/501: fr 24.70 kHz; fv 60 Hz, 1125 (1080)/501: 1125 (1080)/502: fr 24.70 kHz; fv 60 Hz, 1125 (1080)/501: fr 45.00 kHz; fv 60 Hz, 1125 (1080)/501: 1125 (1080)/501: fr 37.5 kHz; fv 50 Hz fr 1125 (1080)/501: fr 37.5 kHz; fv 50 Hz 1125 (1080)/502: fr 45.00 kHz; fv 60 Hz, 1125 (1080)/501: fr 37.00 kHz; fv 60 Hz, 1125 (1080)/501: fr 37.00 kHz; fv 60 Hz, 1125 (1080)/501: Keystone correction range celling/floor, fron/tzer fr 37.00 kHz; fv 60 Hz, 1125 (1080)/501: fr 37.00 kHz; fv 60 Hz, 1125 (1080)/500: Keyston			
Scanning frequency HDMI fi: 15 kHz-100 kHz, fr: 24 Hz-120 Hz, dot clock: 25 MHz-162 WHz RGB fi: 15 kHz-100 kHz, fr: 24 Hz-120 Hz, dot clock: 162 MHz or lower YPBPR (YCBCR) 525i (480): fi: 15.75 kHz; fv 60 Hz, 625i (576i): 625i (576i): fi: 15.63 kHz; fv 50 Hz, 525p (480p): fi: 15.00 kHz; fv 60 Hz, 750 (720)/50p: 750 (720)/50p: fi: 45.00 kHz; fv 60 Hz, 750 (720)/50p: fi: 45.00 kHz; fv 50 Hz, 750 (720)/50p: 1125 (1080)/60i: fi: 33.75 kHz; fv 60 Hz, 750 (720)/50p: fi: 45.00 kHz; fv 50 Hz, 750 (720)/50p: 1125 (1080)/60i: fi: 33.75 kHz; fv 60 Hz, 1125 (1080)/60p: fi: 65.25 kHz; fv 50 Hz, 1125 (1080)/60p: 1125 (1080)/60p: fi: 5.75/15.63 kHz, fv 50 Hz, 1125 (1080)/60p: fi: 65.25 kHz; fv 60 Hz, 1125 (1080)/60p: Installation Video/S-Video fi: 15.75/15.63 kHz, fv: 50/60 Hz Installation Celling/Hoor, front/rear (Menu setting) Built-in speaker Size 7 x 3 cm (2-3/4 x 1-3/16 inches) (oval-shaped) x 1 Output power 10 W (monaural) 525p (480p), 625p (576p), 750 (720)/50p, 750 (720)/50p, 1125 (1080)/50i, 1125 (1080)/50i, 1125 (1080)/50i, 1125 (1080)/50i, 1125 (1080)/50i, 1125 (1080)/50p, VCA (640 × 480) - WSXGA+ (1,680 × 1,050), Audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz) COMPUTER (RGB)	nesolution		
dot clock: 25 MHz–162 MHz RGB fH: 15 kHz–100 kHz, fX: 24 Hz–120 Hz, dot clock: 162 MHz or lower YPsPR (YCaCR) 525i (480): fH 15.75 kHz; fV 60 Hz, 625i (576): fH 31.50 kHz; fV 50 Hz, 525p (480p): fH 31.50 kHz; fV 60 Hz, 625p (576p): fH 31.50 kHz; fV 60 Hz, 625p (576p): fH 45.00 kHz; fV 60 Hz, 750 (720)/50p: fH 31.57 kHz; fV 50 Hz, 750 (720)/50p: fH 31.50 kHz; fV 60 Hz, 750 (720)/50p: fH 37.50 kHz; fV 60 Hz, 750 (720)/50p: fH 37.50 kHz; fV 60 Hz, 1125 (1080)/600: fH 33.75 kHz; fV 60 Hz, 1125 (1080)/60p: fH 27.00 kHz; fV 60 Hz, 1125 (1080)/60p: fH 67.50 kHz; fV 60 Hz, 1125 (1080)/60p: fH 27.00 kHz; fV 60 Hz, 1125 (1080)/60p: fH 56.25 kHz; fV 50 Hz, 1125 (1080)/60p: fH 67.50 kHz; fV 60 Hz, 1125 (1080)/60p: fH 57.51 k3 kHz, fV 50 Hz, 1125 (1080)/60p; fH 56.25 kHz; fV 50 Hz, Installation Ceiling/floor, front/rear (Menu setting) 200 1125 (1080)/60p; 1125 (1080)/60p; Built-in speaker Size 7 x 3 cm (2-3/4 x 1-3/16 inches) (oval-shaped) × 1 100 W (monaural) Terminals	Scanning frequency	HDMI	
RGB fit: 15 kHz-100 kHz, fv: 24 Hz-120 Hz, dot clock: 162 MHz or lower YPBPR (YCBCR) 525i (480): ft 15.75 kHz; fv 60 Hz, 625i (576): ft 415.05 kHz; fv 50 Hz, 625p (480): ft 31.50 kHz; fv 60 Hz, 625p (576p): ft 31.50 kHz; fv 60 Hz, 625p (720)/60p: ft 31.55 kHz; fv 60 Hz, 750 (720)/60p: ft 35.05 kHz; fv 50 Hz, 750 (720)/60p: ft 45.00 kHz; fv 50 Hz, 752 (1800)/600: ft 45.05 kHz; fv 50 Hz, 7125 (1080)/600: ft 67.50 kHz; fv 50 Hz, 7125 (1080)/600: <td>eeaning nequency</td> <td></td> <td></td>	eeaning nequency		
625i (576i): f+ 15.63 kHz; fv 50 Hz, 525p (480p): f+ 31.50 kHz; fv 60 Hz, 625p (576p): f+ 31.25 kHz; fv 50 Hz, 750 (720)/50p: f+ 45.00 kHz; fv 60 Hz, 750 (720)/50p: f+ 37.50 kHz; fv 50 Hz, 750 (720)/50p: f+ 37.50 kHz; fv 50 Hz, 1125 (1080)/60i: f+ 33.75 kHz; fv 60 Hz, 1125 (1080)/50i: f+ 27.00 kHz; fv 50 Hz, 1125 (1080)/50p: f+ 67.50 kHz; fv 50 Hz, 1125 (1080)/50p: f+ 67.50 kHz; fv 50 Hz, 1125 (1080)/50p: f+ 67.50 kHz; fv 60 Hz, 1125 (1080)/50p: f+ 67.50 kHz; fv 60 Hz, 1125 (1080)/50p: f+ 67.50 kHz; fv 50 Hz 1125 (1080)/50p: f+ 67.50 kHz; fv 50 Hz 1125 (1080)/50p: f+ 67.50 kHz; fv 50 Hz Installation [NTSC/NTSC4.43/PAL/PAL60/PAL-N/PAL-M/SECAM] Keystone correction range Vertical: ±15° Installation Size 7 x 3 cm (2-3/4 x 1-3/16 inches) (oval-shaped) x 1 Output power 10 W (monaural) 10 W (monaural) Terminals HDMI IN HDMI 19-pin x 1, HDCP compatible, Deep color compatible 525p (480p), 625p (676p), 525p (480p), 625p (750), 750 (720)/60p, 750 (720)/60p, 1125 (1080)/60i, 1125 (1080)/50i, 1125 (1080)/24p, 		RGB	
525p (480p): fH 31.50 kHz; fv 60 Hz, 625p (576p): fH 31.25 kHz; fv 50 Hz, 750 (720)/60p: fH 45.00 kHz; fv 60 Hz, 750 (720)/60p: fH 35.50 kHz; fv 60 Hz, 750 (720)/60p: fH 37.50 kHz; fv 60 Hz, 1125 (1080)/60i: fH 33.50 kHz; fv 60 Hz, 1125 (1080)/60i: fH 33.50 kHz; fv 60 Hz, 1125 (1080)/60i: fH 28.13 kHz; fv 50 Hz, 1125 (1080)/60p: fH 67.50 kHz; fv 60 Hz, 1125 (1080)/60p: fH 67.50 kHz; fv 60 Hz, 1125 (1080)/60p: fH 67.50 kHz; fv 60 Hz, 1125 (1080)/60p: fH 56.25 kHz; fv 50 Hz 1125 (1080)/60p: fH 57.50 kHz; fv 50 Hz 1125 (1080)/60p: fH 56.25 kHz; fv 50 Hz 1125 (1080)/60p: fH 57.50 kHz; fv 50 Hz 1125 (1080)/60p: fH 57.50 kHz; fv 50 Hz 1125 (1080)/50p: fH 57.50 kHz; fv 50 Hz Installation Ceiling/floor, front/rear (Menu setting) Built-in speaker Size 7 3 cm (2-3/4 x 1-3/16 inches) (oval-shaped) x 1 Size 7 4 3 cm (2-3/4 x 1-3/16 inches) (oval-shaped) x 1 525p (480p), 625p (576p), 525p (480p), 625p (576p), 750 (720)/60p, 750 (720)/60p, 750 (720)/60p, 1125 (1080)/60i, 1125 (1080)/50i, 1125 (1080)/50p, VGA (640 x 480) - WSXGA+ (1,680 x		YPBPr (YCBCr)	525i (480i): fH 15.75 kHz; fv 60 Hz,
625p (576p): ft 31.25 kHz; fv 50 Hz, 750 (720)/60p: ft 45.00 kHz; fv 60 Hz, 750 (720)/50p: ft 37.50 kHz; fv 50 Hz, 1125 (1080)/60i: ft 37.50 kHz; fv 50 Hz, 1125 (1080)/50i: ft 37.50 kHz; fv 50 Hz, 1125 (1080)/50i: ft 37.75 kHz; fv 60 Hz, 1125 (1080)/50i: ft 48.13 kHz; fv 50 Hz, 1125 (1080)/50i: ft 47.00 kHz; fv 60 Hz, 1125 (1080)/50p: ft 67.50 kHz, fv 60 Hz, 1125 (1080)/50p: ft 67.50 kHz, fv 50 Hz, Installation Ceiling/floor, front/rear (Menu setting) Built-in speaker Size 7 x 3 cm (2-3/4 x 1-3/16 inches) (oval-shaped) x 1 Output power 10 W (monaural) Ft 555p (480p), 625p (576p), 525p (480p), 625p (576p), 750 (720)/60p, 750 (720)/60p, 750 (720)/50p, 1125 (1080)/60i, 1125 (1080)/24p, 1125 (1080)/60i, 1125 (1080)/50p			625i (576i): fH 15.63 kHz; fv 50 Hz,
750 (720)/60p: fH 45.00 kHz; fv 60 Hz, 750 (720)/50p: fH 37.50 kHz; fv 50 Hz, 1125 (1080)/60i: fH 33.75 kHz; fv 60 Hz, 1125 (1080)/60i: fH 33.75 kHz; fv 60 Hz, 1125 (1080)/24p: fH 27.00 kHz; fv 24 Hz 1125 (1080)/50p: fH 67.50 kHz; fv 60 Hz, 1125 (1080)/50p: fH 67.50 kHz; fv 60 Hz, 1125 (1080)/50p: fH 67.50 kHz; fv 60 Hz, 1125 (1080)/50p: fH 67.50 kHz; fv 50 Hz 1125 (1080)/50p: fH 67.50 kHz; fv 50 Hz 1125 (1080)/50p: fH 67.50 kHz; fv 60 Hz 1125 (1080)/50p: fH 67.50 kHz; fv 60 Hz 1125 (1080)/50p: fH 67.50 kHz; fv 50 Hz 1125 (1080)/50p: fH 67.50 kHz; fv 50 Hz 1125 (1080)/50p: fH 67.50 kHz; fv 50 Hz Installation [NTSC/NTSC4.43/PAL/PAL60/PAL-N/PAL-M/SECAM] Keystone correction range Ceiling/floor, front/rear (Menu setting) Built-in speaker Size 7 x 3 cm (2-3/4 x 1-3/16 inches) (oval-shaped) x 1 Output power 10 W (monaural) HDMI 19-pin x 1, HDCP compatible, Deep color compatible 525p (480p), 625p (576p), 525p (480p), 625p (576p), 750 (720)/60p, 750 (720)/50p, 1125 (1080)/60i, 1125 (1080)/50p, VGA (640 x 480) – WSXGA+ (1,680 x 1,050), Audio signal: linear PCM (sam			525p (480p): fн 31.50 kHz; fv 60 Hz,
750 (720)/50p: fH 37.50 kHz; fv 50 Hz, 1125 (1080)/60i: fH 37.50 kHz; fv 50 Hz, 1125 (1080)/50i: fH 28.13 kHz; fv 50 Hz, 1125 (1080)/50p: fH 28.13 kHz; fv 50 Hz, 1125 (1080)/50p: fH 27.00 kHz; fv 24 Hz, 1125 (1080)/50p: fH 26.25 kHz; fv 50 Hz, 1125 (1080)/50p: fH 56.25 kHz; fv 50 Hz, 1125 (1080)/50p: fH 56.25 kHz; fv 50 Hz, 1125 (1080)/50p: fH 56.25 kHz; fv 50 Hz, 1125 (1080)/50p: fH 57.57/5.63 kHz, fv: 50/60 Hz, Installation Keystone correction range Vertical: ±15° Ceiling/floor, front/rear (Menu setting) Built-in speaker Size 7 x 3 cm (2-3/4 x 1-3/16 inches) (oval-shaped) x 1 Output power 10 W (monaural) Terminals HDMI IN HDMI 19-pin x 1, HDCP compatible, Deep color compatible 525p (480p), 625p (576p), 525p (480p), 625p (576p), 750 (720)/60p, 750 (720)/50p, 1125 (1080)/60i, 1125 (1080)/50i, 1125 (1080)/24p, 1125 (1080)/60p, 1125 (1080)/50p VGA (640 × 480) – WSXGA+ (1,680 × 1,050), Audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz) COMPUTER (RGB) 1/2 IN R, G, B D-sub HD 15-pin (female) x 1 G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive/negative automatic			625р (576р): fн 31.25 kHz; fv 50 Hz,
1125 (1080)/60i: fH 33.75 kHz; fv 60 Hz, 1125 (1080)/50i: fH 28.13 kHz; fv 50 Hz 1125 (1080)/24p: fH 27.00 kHz; fv 24 Hz 1125 (1080)/24p: fH 27.00 kHz; fv 24 Hz 1125 (1080)/50p: fH 67.50 kHz; fv 60 Hz 1125 (1080)/50p: fH 67.50 kHz; fv 50 Hz 1125 (1080)/50p: fH 67.50 kHz; fv 50 Hz 1125 (1080)/50p: fH 56.25 kHz; fv 50 Hz 1125 (1080)/50p: fH 56.25 kHz; fv 50 Hz 1125 (1080)/50p: fH 56.25 kHz; fv 50 Hz Installation Keystone correction range Vertical: ±15° Installation Size 7 x 3 cm (2-3/4 x 1-3/16 inches) (oval-shaped) × 1 Output power 10 W (monaural) Terminals HDMI IN HDMI IN HDMI 19-pin × 1, HDCP compatible, Deep color compatible 525p (480p), 625p (576p), 525p (480p), 625p (576p), 750 (720)/60p, 750 (720)/50p, 1125 (1080)/50i, 1125 (1080)/50i, 1125 (1080)/24p, 1125 (1080)/50p, 1125 (1080)/50p, 1125 (1080)/50p, VGA (640 × 480) – WSXGA+ (1,680 × 1,050), Audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz) COMPUTER (RGB) 1/2 IN R, G, B D-sub HD 15-pin (female) × 1 R, G, B G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive/negative automatic			750 (720)/60p: fн 45.00 kHz; fv 60 Hz,
1125 (1080)/50i: fH 28.13 kHz; fv 50 Hz 1125 (1080)/24p: fH 27.00 kHz; fv 24 Hz 1125 (1080)/60p: fH 67.50 kHz; fv 60 Hz 1125 (1080)/50p: fH 56.25 kHz; fv 50 Hz 1125 (1080)/50p: fH 56.25 kHz; fv 50 Hz Video/S-Video Keystone correction range Video/S-Video Keystone correction range Vertical: ±15° Installation Built-in speaker Size Output power 10 W (monaural) Terminals HDMI IN HDMI 19-pin × 1, HDCP compatible, Deep color compatible 525p (480p), 625p (576p), 525p (480p), 625p (576p), 750 (720)/60p, 750 (720)/50p, 1125 (1080)/50i, 1125 (1080)/50i, 1125 (1080)/24p, 1125 (1080)/60p, 1125 (1080)/50p VGA (640 × 480) – WSXGA+ (1,680 × 1,050), Audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz) COMPUTER (RGB) 1/2 IN R, G, B G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive/negative automatic			
1125 (1080)/24p: fH 27.00 kHz; fv 24 Hz 1125 (1080)/60p: fH 67.50 kHz; fv 60 Hz 1125 (1080)/50p: fH 56.25 kHz; fv 50 Hz 1125 (1080)/50p: fH 56.25 kHz; fv 50 Hz Video/S-Video fH: 15.75/15.63 kHz, fv: 50/60 Hz INSC/NTSC4.43/PAL/PAL60/PAL-N/PAL-M/SECAM] Keystone correction range Vertical: ±15° Installation Size 7 x 3 cm (2-3/4 x 1-3/16 inches) (oval-shaped) × 1 Output power 10 W (monaural) Terminals HDMI IN HDMI IN HDMI 19-pin x 1, HDCP compatible, Deep color compatible 525p (480p), 625p (576p), 525p (480p), 625p (576p), 750 (720)/60p, 750 (720)/50p, 1125 (1080)/50i, 1125 (1080)/24p, 1125 (1080)/60p, 1125 (1080)/50i, 1125 (1080)/24p, 1125 (1080)/60p, 1125 (1080)/60p, 1125 (1080)/50p VGA (640 × 480) – WSXGA+ (1,680 × 1,050), Audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz) COMPUTER (RGB) 1/2 IN R, G, B R, G, B G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; HD/VD, SYNC: high impedance, TTL, positive/negative automatic			
1125 (1080)/60p: fH 67.50 kHz; fv 60 Hz 1125 (1080)/50p: fH 56.25 kHz; fv 50 Hz (NTSC/NTSC4.43/PAL/PAL60/PAL-N/PAL-M/SECAM]Keystone correction rangeVertical: ±15° Ceiling/floor, front/rear (Menu setting)Built-in speakerSize7 x 3 cm (2-3/4 x 1-3/16 inches) (oval-shaped) × 1 Output powerTerminalsHDMI INHDMI 19-pin x 1, HDCP compatible, Deep color compatible 525p (480p), 625p (576p), 750 (720)/60p, 750 (720)/50p, 1125 (1080)/50i, 1125 (1080)/24p, 1125 (1080)/60p, 1125 (1080)/50p VGA (640 x 480) - WSXGA+ (1,680 x 1,050), Audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz)COMPUTER (RGB) 1/2 IN R, G, BD-sub HD 15-pin (female) x 1 G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive/negative automatic			
1125 (1080)/50p: fH 56.25 kHz; fv 50 Hz Hit 15.75/15.63 kHz, fv: 50/60 Hz [NTSC/NTSC4.43/PAL/PAL60/PAL-N/PAL-M/SECAM] Keystone correction rare Vertical: ±15° Installation Ceiling/floor, front/rear (Menu setting) Built-in speaker Size 7 x 3 cm (2-3/4 x 1-3/16 inches) (oval-shaped) x 1 Output power 10 W (monaural) Terminals HDMI IN HDMI 19-pin x 1, HDCP compatible, Deep color compatible 525p (480p), 625p (576p), 525p (480p), 625p (576p), 750 (720)/60p, 750 (720)/50p, 1125 (1080)/60i, 1125 (1080)/50i, 1125 (1080)/24p, 1125 (1080)/60p, 1125 (1080)/50p VGA (640 x 480) – WSXGA+ (1,680 x 1,050), Audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz) COMPUTER (RGB) 1/2 IN R, G, B D-sub HD 15-pin (female) x 1 G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive/negative automatic			
Video/S-VideofH: 15.75/15.63 kHz, fv: 50/60 Hz [NTSC/NTSC4.43/PAL/PAL60/PAL-N/PAL-M/SECAM]Keystone correction rangeVertical: ±15°InstallationCeiling/floor, front/rear (Menu setting)Built-in speakerSize7 x 3 cm (2-3/4 x 1-3/16 inches) (oval-shaped) x 1 0utput powerTerminalsHDMI INHDMI 19-pin x 1, HDCP compatible, Deep color compatible 525p (480p), 625p (576p), 525p (480p), 625p (576p), 750 (720)/60p, 750 (720)/50p, 1125 (1080)/60i, 1125 (1080)/50i, 1125 (1080)/24p, 1125 (1080)/60p, 1125 (1080)/50p VGA (640 x 480) – WSXGA+ (1,680 x 1,050), Audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz)COMPUTER (RGB) 1/2 IN R, G, BD-sub HD 15-pin (female) x 1 G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive/negative automatic			
Keystone correction range[NTSC/NTSC4.43/PAL/PAL60/PAL-N/PAL-M/SECAM]Keystone correction rangeVertical: ±15°InstallationCeiling/floor, front/rear (Menu setting)Built-in speakerSize7 x 3 cm (2-3/4 x 1-3/16 inches) (oval-shaped) x 1Output power10 W (monaural)TerminalsHDMI INHDMI 19-pin x 1, HDCP compatible, Deep color compatible 525p (480p), 625p (576p), 525p (480p), 625p (576p), 750 (720)/60p, 750 (720)/50p, 1125 (1080)/60i, 1125 (1080)/50i, 1125 (1080)/24p, 1125 (1080)/60p, 1125 (1080)/50p VGA (640 x 480)-WSXGA+ (1,680 x 1,050), Audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz)COMPUTER (RGB) 1/2 IN R, G, BD-sub HD 15-pin (female) x 1 G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive/negative automatic		Video/S Video	
Keystone correction rangeVertical: ±15°InstallationCeiling/floor, front/rear (Menu setting)Built-in speakerSizeOutput power10 W (monaural)TerminalsHDMI INHDMI INHDMI 19-pin × 1, HDCP compatible, Deep color compatible 525p (480p), 625p (576p), 525p (480p), 625p (576p), 750 (720)/60p, 750 (720)/50p, 1125 (1080)/60i, 1125 (1080)/50i, 1125 (1080)/24p, 1125 (1080)/60p, 1125 (1080)/50p VGA (640 × 480) – WSXGA+ (1,680 × 1,050), Audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz)COMPUTER (RGB) 1/2 IN R, G, BD-sub HD 15-pin (female) × 1 G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive/negative automatic		video/3-video	
Installation Ceiling/floor, front/rear (Menu setting) Built-in speaker Size 7 x 3 cm (2-3/4 x 1-3/16 inches) (oval-shaped) × 1 Output power 10 W (monaural) Terminals HDMI IN HDMI 19-pin × 1, HDCP compatible, Deep color compatible 525p (480p), 625p (576p), 525p (480p), 625p (576p), 750 (720)/60p, 750 (720)/50p, 1125 (1080)/60i, 1125 (1080)/50i, 1125 (1080)/24p, 1125 (1080)/60p, 1125 (1080)/50p VGA (640 × 480) – WSXGA+ (1,680 × 1,050), Audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz) COMPUTER (RGB) 1/2 IN R, G, B G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive/negative automatic	Keystone correction range	۵	-
Built-in speakerSize7 x 3 cm (2-3/4 x 1-3/16 inches) (oval-shaped) x 1Output power10 W (monaural)TerminalsHDMI INHDMI INHDMI 19-pin x 1, HDCP compatible, Deep color compatible 525p (480p), 625p (576p), 525p (480p), 625p (576p), 750 (720)/60p, 750 (720)/50p, 1125 (1080)/60i, 1125 (1080)/50i, 1125 (1080)/24p, 1125 (1080)/60p, 1125 (1080)/50p VGA (640 x 480) – WSXGA+ (1,680 x 1,050), Audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz)COMPUTER (RGB) 1/2 IN R, G, BD-sub HD 15-pin (female) x 1 G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive/negative automatic	, ,	0	
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525p (480p), 625p (576p), 525p (480p), 625p (576p), 750 (720)/60p, 750 (720)/50p, 1125 (1080)/60i, 1125 (1080)/50i, 1125 (1080)/24p, 1125 (1080)/60p, 1125 (1080)/50p VGA (640 × 480) – WSXGA+ (1,680 × 1,050), Audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz) COMPUTER (RGB) 1/2 IN R, G, B G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive/negative automatic	·	Output power	
525p (480p), 625p (576p), 525p (480p), 625p (576p), 750 (720)/60p, 750 (720)/50p, 1125 (1080)/60i, 1125 (1080)/50i, 1125 (1080)/24p, 1125 (1080)/60p, 1125 (1080)/50p VGA (640 × 480) – WSXGA+ (1,680 × 1,050), Audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz) COMPUTER (RGB) 1/2 IN R, G, B G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive/negative automatic	Terminals	HDMI IN	
1125 (1080)/60p, 1125 (1080)/50pVGA (640 × 480) – WSXGA+ (1,680 × 1,050), Audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz)COMPUTER (RGB) 1/2 IN R, G, BD-sub HD 15-pin (female) × 1 G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive/negative automatic			
VGA (640 × 480) – WSXGA+ (1,680 × 1,050), Audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz)COMPUTER (RGB) 1/2 IN R, G, BD-sub HD 15-pin (female) × 1 G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive/negative automatic			750 (720)/50p, 1125 (1080)/60i, 1125 (1080)/50i, 1125 (1080)/24p,
PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz) COMPUTER (RGB) 1/2 IN D-sub HD 15-pin (female) × 1 R, G, B G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive/negative automatic			1125 (1080)/60p, 1125 (1080)/50p
COMPUTER (RGB) 1/2 IN D-sub HD 15-pin (female) × 1 R, G, B G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive/negative automatic			
R, G, BG: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms;B, R: 0.7 Vp-p, 75 ohms;HD/VD, SYNC: high impedance, TTL, positive/negative automatic			
B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive/negative automatic			
HD/VD, SYNC: high impedance, TTL, positive/negative automatic		R, G, B	
			•••
I, FB(OB), FR(OR) I. I.OVP-D(IIICIUUIIIQ SVIIC SIQUAL),			
Рв (Св), Рг (Сс, 7 то то тре разлад у тре станала и разлад у т		I, ГВ (ОВ), ГК (ОК)	
MONITOR (RGB) OUT D-sub HD 15-pin (female) × 1		MONITOR (RGB) OUT	
R, G, B (Outputs signals selected from RGB input 1/2.)			
G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms;			HD/VD, SYNC: high impedance, TTL, positive
G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms;		Y, Рв (Св), Рг (Сг)	Y: 1.0 Vp-p (including sync signal);
G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive			Рв (Св), Pr (Сr): 0.7 Vp-p, 75 ohms
G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive Y, PB (CB), PR (CR) Y: 1.0 Vp-p (including sync signal);		VIDEO IN	Pin jack × 1, 1.0 Vp-p, 75 ohms
G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive Y, PB (CB), PR (CR) VIDEO IN Pin jack × 1, 1.0 Vp-p, 75 ohms		S-VIDEO IN	Mini DIN 4-pin × 1, Y: 1.0 Vp-p; C: 0.286 Vp-p, 75 ohms
G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms;			B, R: 0.7 Vp-p, 75 ohms;
G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms;			
G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive		Y, Рв (Св), Рг (Сг)	
G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive Y, PB (CB), PR (CR) Y: 1.0 Vp-p (including sync signal);			
G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive Y, PB (CB), PR (CR) Y: 1.0 Vp-p (including sync signal); PB (CB), PR (CR): 0.7 Vp-p, 75 ohms			
G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL, positive Y, PB (CB), PR (CR) VIDEO IN Pin jack × 1, 1.0 Vp-p, 75 ohms			

Panasonic

PT-**CX300**

FILE S P E C

Ultra Short-Throw DLP[™] Projector

		M3 (L, R) × 1, 0.5 Vrms M3 (L, R) × 1, 0.5 Vrms N
	AUDIO OUT SERIAL IN LAN	Pin jack × 2 (L/R × 1), 0.5 Vrms M3 (L, R) × 1 (monitor out: 0-2.0 Vrms, variable) D-sub 9-pin (female) × 1, for external control (RS-232C compliant) RJ-45 × 1, for network connection, 100Base-TX/10Base-T, compliant with PJLink [™]
Power cord length Cabinet materials Dimensions (W × H × D) Weight Operation noise Operating temperature	MiniUSB	Mini Folink ** Mini USB x 1 (For service technician) 3.0 m (9 ft 10 in) Molded plastic (PC) 357 mm x 250 mm* ³ x 367 mm (14-1/16 x 9-27/32* ³ x 14-29/64 inches) Approximately 7.7 kg (17 lbs) 37 dB (LAMP POWER: NORMAL), 33 dB (LAMP POWER: ECO) 5-40 °C (41-104 °F) up to 750 m (2,500 ft) above sea level, 5-35 °C (41-95 °F) between 750 m and 1,500 m (2,500 ft and 5,000 ft) above sea level. 5-30 °C (41-86 °F) between 1,500 m and 3,000 m (5,000 ft and
Operating humidity		10,000 ft) above sea level. 20%-80% (no condensation)
Remote control unit Power supply Operation range* ⁴ Dimensions (W × H × D)		3 V DC (Lithium coin cell battery \times 1) Approximately 8 m (26.3 ft) when operated from directly in front of the signal receptor 41 \times 87 \times 7 mm (1-39/64 \times 3-27/64 \times 9/32 inches)
Weight		Approx. 23 g (0.8 oz) (including Lithium coin cell battery)
Supplied accessories		Power cord (× 1) (× 2 for PT-CX300EA) Power code cover (× 1) Power code holder (× 1) Wireless remote control unit (× 1) Lithium coin cell battery for remote control (× 1) Computer cable (1.8 m) (× 1)
Optional accessories Ceiling mount bracket Bracket assembly Wall mount bracket Replacement lamp unit		ET-PKV100H (for high ceilings) ET-PKV100S (for low ceilings) ET-PKC200B ET-PKC200W ET-LAC300

Weights and dimensions shown are approximate. Specifications subject to change without notice.

- *1 When the standby mode is set to eco, network functions such as LAN Standby On and MONITOR OUT/AUDIO OUT terminals do not work.
- *2 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.

*3 With legs at shortest position.
*4 Operation range differs depending on environments.

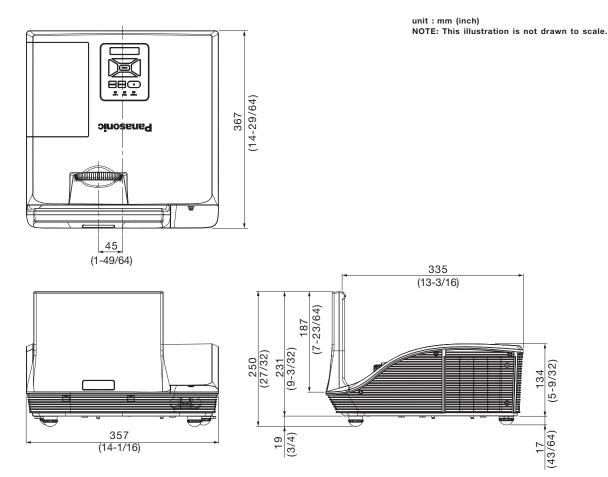
As of April 2013



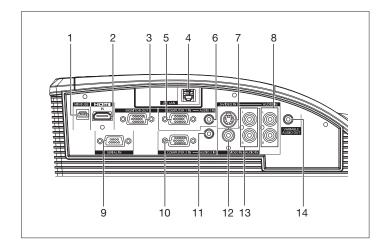
PT-CX300



Dimensions



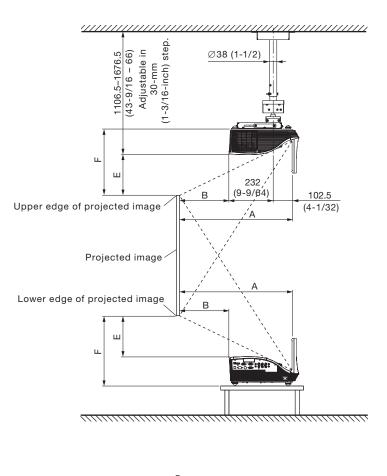
Terminals



- 1 MiniUSB
- 2 HDMI input
- 3 Monitor output
- 4 LAN connector
- 5 Computer 1 input
- 6 Audio input for computer 1
- 7 S-Video input
- 8 Audio input for S-Video
- 9 Serial input
- 10 Computer 2 input
- 11 Audio input for computer 2
- 12 Video input
- 13 Audio input for video
- 14 Audio output

PT-**CX300**

Standard setting-up position



NOTE:

Illustrations show the projector installed using optional ceiling mount bracket ET-PKV100H and bracket assembly ET-PKC200B. This illustration is not drawn to scale.

unit : mm (inch)

Caution:

• All construction work should be done by a qualified technician.

Projected image

• When mounting to the ceiling, use the special mounting bracket.

(3-15/16)

Furthermore, in order to prevent it from falling down from the ceiling, use the supplied wire on the mounting bracket.

(2-13/64)

140 (5-1/2)

(2-3/4) + 56

(2-3/4)

100

200

(3-15/16)

PT-**CX300**

Projection distance for 4:3 aspect ratio screen

				Unit: meter
Screen size (inch, diagonal)	A: Distance from the edge of the projection window to the screen	B: Distance from the projector front to the screen	E: Height from the edge of the screen to the top of the projector	F: Height from the edge of the screen to the bottom of the projector
60	0.52	0.19	0.18	0.26
70	0.62	0.28	0.23	0.30
80	0.71	0.38	0.27	0.34
90	0.80	0.47	0.31	0.39
				Unit: fe
Screen size (inch, diagonal)	A: Distance from the edge of the projection window to the screen	B: Distance from the projector front to the screen	E: Height from the edge of the screen to the top of the projector	F: Height from the edge of the screen to the bottom of the projector
60	1.7	0.6	0.6	0.9
70	2.0	0.9	0.8	1.0
80	2.3	1.2	0.9	1.1
90	2.6	1.5	1.0	1.2

Calculation of the projection distance

For a screen size different from the above, use the equation below to calculate the projection distance.

Aspect ratio 4:3 A (m) = (diagonal screen size in inches) \times 0.00940 - 0.0415

NOTE:

Distances calculated with the above equations will include a slight error.

SPEC FILE

Ultra Short-Throw DLP[™] Projector

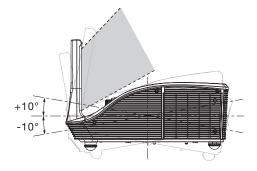
PT-CX300

Installable angle

Install the projector at an angle within the range shown below.

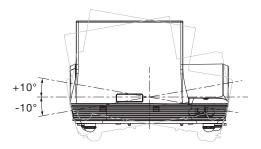
• Vertical direction

The projector may be installed at a vertical angle of $\pm 10^{\circ}$.



• Horizontal direction

The projector may be installed at a horizontal angle of $\pm 10^\circ.$





List of compatible signals

The signals that can be input to this projector are shown in the table below. Horizontal scanning frequencies of 15 kHz to 100 kHz, vertical scanning frequencies of 24 Hz to 120 Hz, and a dot clock of 162 MHz maximum can be input.

NOTE: The native resolution of this projector is 1,024 × 768 pixels. If the display resolution of the input signal is different from the native resolution, image compression or expansion will be used to convert the input signal to a level within the native resolution.

Display mode	Display		g frequency	Dot clock	Format
	resolution (dots) ¹	H (kHz)	V (kHz)	frequency (MHz)	
NTSC/NTSC4.43/PAL-M/PAL60	720 × 480i	15.7	59.9	_	VIDEO/S-VIDEO
PAL/PAL-N/SECAM	720 × 576i	15.6	50.0	-	
525i (480i)	720 × 480i	15.7	59.9	27.0	HDMI
		15.7	59.9	13.5	YCBCR
625i (576i)	720 × 576i	15.6	50.0	27.0	HDMI
		15.6	50.0	13.5	YCBCR
525p (480p)	720 × 483	31.5	59.9	27.0	HDMI/YP _B P _R
625p (576p)	720 × 576	31.3	50.0	27.0	_
750(720)/60p	1280 × 720	45.0	60.0	74.3	
750(720)/50p	_	37.5	50.0	74.3	
1125(1080)/60i	1920 × 1080i	33.8	60.0	74.3	
1125(1080)/50i	_	28.1	50.0	74.3	
1125(1080)/24p	1920 × 1080	27.0	24.0	74.3	_
1125(1080)/60p	_	67.5	60.0	148.5	_
1125(1080)/50p	_	56.3	50.0	148.5	_
VGA	640 × 480	31.5	59.9	25.2	HDMI/RGB
		35.0	66.7	30.2	_
		37.5	75.0	31.5	
		37.9	72.8	31.5	_
		43.3	85.0	36.0	_
		61.9	120.0	52.5	_
	720 × 400	31.5	70.1	28.3	_
SVGA	800 × 600	35.1	56.3	36.0	_
		37.9	60.3	40.0	_
		46.9	75.0	49.5	_
		48.1	72.2	50.0	_
		53.7	85.1	56.3	_
		77.4	119.9	83.0	
MAC16	832 × 624	49.1	74.6	57.3	_
XGA	1024 × 768	48.4	60.0	65.0	_
		56.5	70.1	75.0	_
		60.0	75.0	78.8	_
		68.7	85.0	94.5	_
		99.0	119.8	137.8	_
WXGA	1280 × 720	44.8	60.0	74.5	_
	1280 × 800	49.7	59.8	83.5	_
	1366 × 768	47.7	59.8	84.8	_
	1440 × 900	59.9	59.9	106.5	_
MAC21	1152 × 870	68.7	75.1	100.0	_
SXGA	1280 × 960	60.0	60.0	108.0	_
		75.2	75.0	130.0	_
	1280 × 1024	64.0	60.0	108.0	_
		77.0	72.0	133.0	_
		80.0	75.0	135.0	_
SXGA+	1400 × 1050	65.3	60.0	121.8	_
UXGA	1600 × 1200	75.0	60.0	162.0	_
WSXGA+	1680 × 1050	65.3	60.0	146.3	

*1 The "i" appearing after the resolution indicates an interlaced signal.

3D-compliant signal list

The 3D signals that can be input to this projector are as follows.

Display mode	Display	Scannin	g frequency	Dot clock	HDMI				RGB1/RGB	Video/S-V	Video
	resolution (dots) ¹	H (kHz)	V (kHz)	frequency (MHz)	Frame packing	Side by side	Top and bottom	Frame sequential	Frame sequential	Frame sequential	Filled sequential
750(720)/60p	1280 × 720	45.0	60.0	74.3	0	×	0	×	×	×	×
750(720)/50p	-	37.5	50.0	74.3	0	×	0	×	×	×	×
1125(1080)/60i	1920 × 1080i	33.8	60.0	74.3	×	0	×	×	×	×	×
1125(1080)/50i	-	28.1	50.0	74.3	×	0	×	×	×	×	×
1125(1080)/24p	1920 × 1080	27.0	24.0	74.3	0	×	0	×	×	×	×
VGA	640 × 480	61.9	119.5	52.6	×	×	×	0	0	×	×
SVGA	800 × 600	77.4	119.9	83.0	×	×	×	0	0	×	×
XGA	1024 × 768	99.0	119.8	137.8	×	\times	×	0	0	×	×
Video/S-Video	-	_	-	_	×	×	×	_	×	0	0

Serial connector

The serial connector complies with RS-232C. To control the projector from a personal computer, commands must be input through communication software, based on the format and satisfying the communication conditions shown below.

Pin assignments and signal names

6 9	No.	Signal name	Description	No.	Signal name	Description
6 9	1	-	NC	6	-	NC
	2	TXD	Send data	7	CTS	Connected internally
	3	RXD	Receive data	8	RTS	Connected internally
	4	-	NC	9	-	NC
1 5	5	GND	Ground			

D-sub 9-pin (female) Serial input

Communication conditions (factory setting)

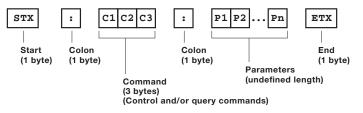
Signal level	RS-232C-compliant
Synchronization method	Start-stop synchronization
Baud rate	19,200 bps
Parity	None
Character length	8 bits
Stop bit	1 bit
X parameter	None
S parameter	None

SPEC FILE

Ultra Short-Throw DLP[™] Projector

Basic format

Transmission from the computer begins with STX, then the ID, command, parameter, and ETX are sent in this order. Add parameters according to the details of control.



* STX and ETX are character chords. STX is 02 and ETX is 03 when expressed in hexadecimal.

CAUTION

- It may not be possible to send or receive commands for about 10 to 60 seconds when the lamp is first turned on. If this occurs, wait for 60 seconds, then try sending or receiving again.
- When sending multiple commands, be sure to wait for at least 0.5 second after receiving a response from the projector before sending the next command.
- Additional time is sometimes required for response due to processing inside the projector. Set the time-out period for command response to 10 seconds or more.

Cable specifications

	Projector		PC (DTE)
	1	NC NC	1
	2		2
	3		- 3
	4	NC NC	4
	5		- 5
	6	NC NC	6
	7		- 7
L	8]	- 8
	9	NC NC	9

Control commands

Command : Parameter	Function		Callback
PON	POWER (STANDBY)	Standby power on	PON
POF		Standby power off	POF
IIS:HD1	INPUT SELECT	HDMI	IIS:HD1
IIS:RG1		RGB 1	IIS:RG1
IIS:RG2		RGB 2	IIS:RG2
IIS:VID		Video	IIS:VID
IIS:SVD		S-Video	IIS:SVD
OSH:0	AV MUTE	AV mute off	OSH:0
OSH:1		AV mute on	OSH:1

* Do not send PON, POF or OSH commands continuously in a short period of time. Doing so may burst the lamp or shorten the lamp replacement cycle.

* When a command that cannot be executed during standby mode is sent, the projector will send an ER401 command in reply.



Status request commands

Command : Parameter	Function	Callback	Description
QPW	Main power status	000	Standby
		001	On
Q\$S	Lamp on status	0	Standby
		1	Lamp on control in progress
		2	Lamp on
		3	Lamp off control in progress
QSH	AV mute function status	0	Off
		1	On
QIN	Input signal status	HD1	HDMI
		RG1	RGB 1
		RG2	RGB 2
		VID	Video
		SVD	S-Video
QVX:RTMI0	Projector run time	p1p2p3p4p5	00000h-99999h
Q\$L	Lamp run time	p1p2p3p4	0000h-9999h
QTM:0	Temperature status	p1p2p3p4/p5p6p7p8 ^(*1)	p0 = Internal temperature

*1 p1p2p3p4: Celsius (°C), p5p6p7p8: Fahrenheit (°F)

NOTE: If a wrong command is received, the projector will send an ER401 or ER402 command to the computer.

Command example

To set the AV mute function off, send the command as shown below.

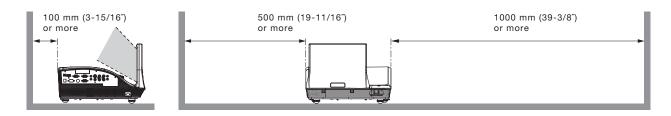
STX	OSH :	0	ETX
Start	Command	Param	eter End

NOTE: When sending commands without parameters, a colon (:) is not necessary.

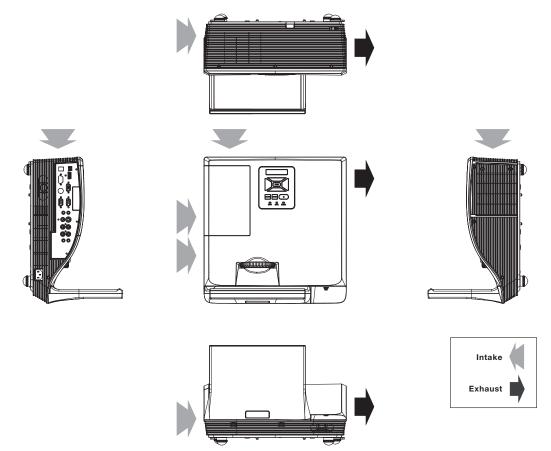
Notes on projector placement and operation

The projector uses a high-wattage lamp that becomes very hot during operation. Please observe the following precautions.

- 1. Never place objects on top of the projector while it is operating.
- 2. Make sure there is the unobstructed space as shown below or more around the projector's exhaust openings. In addition to this space, also ensure that there is a sufficient work space for removing and installing the lamp, air filter and other parts.
- 3. Make sure that nothing blocks the projector's air intake and exhaust openings. Also, install the projector so that cool or hot air from other air conditioning equipment does not flow directly toward the projector's air intake or exhaust openings.
- 4. Do not install the projector in an enclosed space. If it is necessary to install it in an enclosed space, add a separate ventilation system. If ventilation is insufficient, hot air will accumulate at the intake opening. This may cause the projector's protective circuit to interrupt projector operation.



Direction of air intake and exhaust



Operating the projector continuously

- 1. If the projector is to be operated continuously 22 hours or more, lamp replacement cycle duration becomes shorter.
- 2. The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods (one hour or less).

Weights and dimensions shown are approximate. Specifications and appearance are subject to change without notice. Product availability differs depending on region and country. This product may be subject to export control regulations.

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