



*Changes for the Better*

DATA PROJECTOR

for a greener tomorrow



MODEL

TW21U  / TX20U

TW11U  / TX10U

# The future of mobile projection is here.





## Outstanding Features

		TW21U / TX20U	TW11U / TX10U	
High Image Quality	High Brightness	3500lm	3000lm	
	High Contrast	3000:1	3000:1	
Ecology Friendly	Long Life Lamp	6000hrs (in Low2 Mode) 3000hrs(in Standard Mode)	6000hrs (in Low Mode) 3000hrs(in Standard Mode)	
	Efficient Mode Selection	✓	✓	
	Unpainted Cabinet (Eco-Friendly)	✓	✓	
	Powerful Audio Speaker	16W mono	10W mono	
Installation Flexibility & User Friendly Presentation	Auto Keystone Correction	✓	✓	
	Ultra Quiet Fan Noise	25dB (in Low2 mode)	25dB (in Low mode)	
	Top-loading Lamp		✓	✓
	OSD Menu Multilanguage	24 languages	24 languages	
	Digital Zoom	✓	✓	
	HDMI Input		2	1
	VGA Input		2	2
	RJ-45 Port		1	1
	3D Ready Support all formats (Frame packing/Side by side/ Top and bottom/Frame sequential)		✓	✓
	USB Viewer(PtG file /JPEG Viewer)		✓	-
Network Connectivity	Crestron Room View™		✓	✓
	AMX Device Discovery		✓	✓
	PJLink®		✓	✓
	WiFi-Doc / SidePad Function		✓	-
	USB display / LAN display		✓	-
Thin Client Projector		✓	-	

# The next generation of classroom projectors.

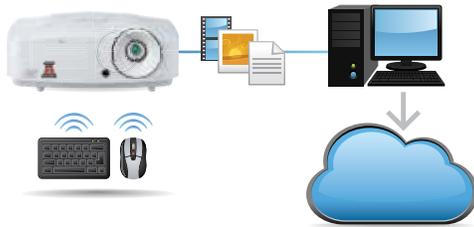
Mitsubishi Electric projectors keep getting better and better. Select from a line-up of full-scale mobile projectors with assorted features designed to suit any classroom need.



## Cloud Projection\*

### Thin Client Projector\*

Mitsubishi Cloud Projectors can be connected to a LAN and used as a Thin-client to retrieve stored information to be presented directly to the projector. The projectors also function as a terminal adaptor, enabling a cloud connection through a computer or server. Applications and data can be used in the cloud infrastructure for easy accessibility and to help reduce both overall total cost of ownership and amount invested in equipment.



### SidePad Function\*

Presenters can go mobile using the free SidePad application to remotely access and control their computer from a tablet or smartphone. Projected images are mirrored on tablets or smartphone, and the computer can be operated through the mobile device.



### WiFi-Doc\*

Present on screen using only a tablet or smartphone! The free WiFi-Doc application allows files stored on a tablet or smartphone (txt/pdf/ppt/xls/doc/jpeg files) to be sent directly to the projector giving presenters the freedom to interact more with the audience.



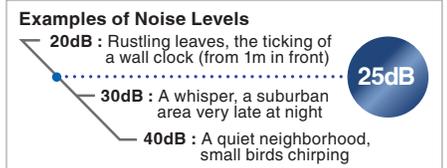
\* TW21U and TX20U only

## User-friendly / Eco-conscious

### Ultra Quiet Operation – 25dB<sup>†</sup>

Fan noise during projector operation can be distracting during a presentation or videoconference. The TW21U/ TX20U & TW11U/ TX10U operate at a significantly low noise level of only 25dB (i.e., in low lamp mode). As a result, presentations and conferences can be enjoyed without distracting projector noise in the background.

<sup>†</sup> TW11U/ TX10U : Low mode , TW21U/ TX20U : Low2 mode  
TW11U/ TX10U : 32dB , TW21U/ TX20U : 35dB in Standard mode



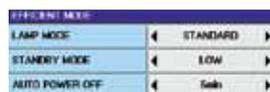
### Energy-efficient Mode Selection

Models are equipped with selection functions for the lamp, power source and standby mode, allowing each to be set according to the usage environment.

Lamp Mode: Standard / Low  
Standby Mode: Standard / LAN / Low  
Auto Power Off: 5min / 10min / 15min / 30min / 60min / 4hour / 8hour



Modes can be set and changes made to them by direct input using via the remote controller.



Each mode can be set individually

### Digital Zoom

The Digital Zoom function utilizes an electrical image-correction process to reduce the image size up to 30% for TW11U and TW21U and up to 25% for TX10U and TX20U (maximum reduction to 70% of original size for TW11U and TW21U and to 75% for TX10U and TX20U). When zooming out, the focal point at the center of the image remains the same while the overall image dimensions are reduced. In addition, the position of the reduced image can be moved up/down and left/right within certain limits.



TW11U/ TW21U : Reduction rate: 100-70%;  
Zoom ratio: 1-1.4  
TX10U/ TX20U : Reduction rate: 100-75%;  
Zoom ratio: 1-1.3

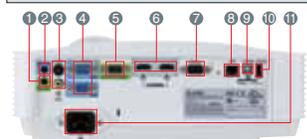


## Specifications

Model	TW21U	TX20U	TW11U	TX10U
Display technology	0.65" 1-Chip DMD, 12deg. LVDS, DDP4421	0.55" 1-Chip DMD, 12deg. LVDS, DDP4421	0.65" 1-Chip DMD, 12deg. LVDS, DDP4421	0.55" 1-Chip DMD, 12deg. LVDS, DDP4421
Resolution	1280 x 800 (Total 1,024,000 pixels)	1024 x 768 (Total 786,432 pixels)	1280 x 800 (Total 1,024,000 pixels)	1024 x 768 (Total 786,432 pixels)
Brightness*	3500lm		3000lm	
Contrast ratio	3000 : 1(on/off)			
Picture size	40"-300"			
Throw ratio	1.5-1.9	1.6-1.9	1.5-1.9	1.6-1.9
Source lamp	Standard Mode: 240W (Shut Off Time: 3000hrs), Low2 Mode: 170W (Shut Off Time: 6000hrs)		Standard Mode: 210W (Shut Off Time: 3000hrs), Low Mode: 160W (Shut Off Time: 6000hrs)	
PC compatibility	640 x 480(Expand) - 1280 x 800(Real) - 1600 x 1200 (Compressed), 1080p (Compressed) Sync on Green available	640 x 480(Expand) - 1024 x 768(Real) - 1600 x 1200 (Compressed), 1080p (Compressed) Sync on Green available	640 x 480(Expand) - 1280 x 800(Real) - 1600 x 1200 (Compressed), 1080p (Compressed) Sync on Green available	640 x 480(Expand) - 1024 x 768(Real) - 1600 x 1200 (Compressed), 1080p (Compressed) Sync on Green available
Video compatibility	NTSC / NTSC 4.43 / PAL (including PAL-M, N) / SECAM / PAL-60 Component Video ; 480i/p(525i/p), 576i/p(625i/p), 720p(750p), 1080i/p(1125i/p 60Hz) 1080i/p(1125i/p 50Hz)		NTSC / NTSC 4.43 / PAL (including PAL-M, N) / SECAM / PAL-60 Component Video ; 480i/p(525i/p), 576i/p(625i/p), 720p(750p), 1080i/p(1125i/p 60Hz) 1080i/p(1125i/p 50Hz), 1080p 24Hz	
Input terminals	RGB ; mini D-sub 15pin x 2 Audio ; Stereo mini jack (ø3.5mm) x 1 Video ; RCA x 1 + S-VIDEO x 1 Digital ; HDMI x 2		RGB ; mini D-sub 15pin x 2 Audio ; stereo mini jack (ø3.5mm) x 1 Video ; RCA x 1 + S-VIDEO x 1 Digital ; HDM x 1	
Output terminals	RGB ; mini D-sub 15pin x 1 Audio ; Stereo mini jack (ø3.5mm) x 1		RGB ; mini D-sub 15pin x 1 Audio ; Stereo mini jack (ø3.5mm) x 1	
Communication terminals	SERIAL ; mini D-sub 9pin x 1 (RS232C) LAN(RJ-45) ; x 1 (Projector control,LAN Display) USB type-A ; Wireless Display, USB Viewer USB type-B ; USB Display		SERIAL ; mini D-sub 9pin x 1 (RS232C) LAN (RJ-45) ; x 1 (Projector control)	
Audio speaker	16W mono		10W mono	
Keystone Correction	Approx. ±Max 20 degrees (Vertical only)			
Dimensions (W x H x D)	319 x 103 x 224 mm (not including protrusions)			
Weight	2.8kg / 6.2 lbs			
Power requirements	AC 100-240V, 50/60Hz			
Optional lamp	VLT-TX20LP		VLT-TX10LP	

\*Compliant with ISO21118-2005 • Varies depended on condition. • All brand names and product names are trademarks, registered trademarks or trade names of their respective holders. • Lamp life specification is an estimate based on verification under proper conditions and is not the duration of the warranty. Lamp will shut-off automatically when usage reaches the specified estimated maximum lamp hours. Service life may vary widely depending on usage and operating environment and conditions, as well as users' adherence to the maintenance and cleaning procedures provided in the user manual. • "HDMI, the HDMI Logo, and High-Definition Multimedia Interface arvae trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries."

### Input and Output Terminals



TW21U / TX20U

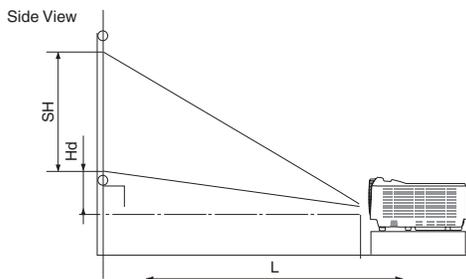
- ① Audio output
- ② Audio input
- ③ S-Video/Video
- ④ PC/Component video input
- ⑤ Monitor output
- ⑥ HDMI
- ⑦ Serial RS-232C
- ⑧ LAN (RJ-45)
- ⑨ USB (type-B)
- ⑩ USB (type-A)
- ⑪ Power in(3-pin with earth terminal)



TW11U / TX10U

- ① Audio output
- ② Audio input
- ③ S-Video/Video
- ④ PC/Component video input
- ⑤ Monitor output
- ⑥ HDMI
- ⑦ Serial RS-232C
- ⑧ LAN (RJ-45)
- ⑨ Power in(3-pin with earth terminal)

## Screen Size and Projection Distance



Screen size chart (TW21U / TW11U)

Size of the projected image						Projection distance:L				Height of projected image(Hd)	
16:10 diagonal size		Width: SW		Height: SH		Shortest (Wide)		Longest (Tele)		Height of projected image(Hd)	
inch	cm	inch	cm	inch	cm	inch	m	inch	m	inch	cm
40	102	34	86	21	54	50	1.3	62	1.6	2.6	7
60	152	51	129	32	81	76	1.9	94	2.4	4.0	10
80	203	68	172	42	108	101	2.6	126	3.2	5.3	13
100	254	85	215	53	135	127	3.2	157	4.0	6.6	17
120	305	102	258	64	162	153	3.9	189	4.8	7.9	20
150	381	127	323	79	202	191	4.8	236	6.0	9.9	25
200	508	170	431	106	269	255	6.5	315	8.0	13.2	34
250	635	212	538	132	337	319	8.1	394	10.0	16.6	42
300	762	254	646	159	404	383	9.7	-	-	19.9	50

Screen size chart (TX20U / TX10U)

Screen size						Projection distance: L				Height of projected image(Hd)	
4:3 diagonal size		Width: SW		Height: SH		Shortest (Wide)		Longest (Tele)		Height of projected image(Hd)	
inch	cm	inch	cm	inch	cm	inch	m	inch	m	inch	cm
40	102	32	81	24	61	51	1.3	62	1.6	3.6	9
60	152	48	122	36	91	77	2.0	93	2.4	5.4	14
80	203	64	163	48	122	103	2.6	125	3.2	7.2	18
100	254	80	203	60	152	129	3.3	156	4.0	9.0	23
120	305	96	244	72	183	156	4.0	187	4.8	10.8	27
150	381	120	305	90	229	195	4.9	234	6.0	13.5	34
200	508	160	406	120	305	260	6.6	313	7.9	18.0	46
250	635	200	508	150	381	325	8.3	391	9.9	22.5	57
300	762	240	610	180	457	390	9.9	-	-	27.0	69



for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.



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