

### High-grade Type

Model No.	LMD-4250W	LMD-2450W	LMD-2050W	NEW LMD-1750W
PANEL Type	a-Si TFT Active Matrix			
Picture Size*	42-inch	24-inch	20-inch	17-inch
Picture Resolution	1920 x 1080 pixels	1920 x 1200 pixels	1680 x 1050 pixels	1280 x 768 pixels
Panel Aspect Ratio	16:9		16:10	15:9
Panel Bit Depth	8 bit			
INPUT/OUTPUT CAPABILITY	HD (Digital/Analog)/SD (Digital/Analog)			
Acceptable Computer System	Full HD	upto WUXGA	upto WSXGA+	upto WXGA
<b>ANALOG VIDEO</b>				
Composite	BNC x 1 (IN), BNC x 1 (OUT**)			
Y/C	4-pin Mini-DIN x 1 (IN), 4-pin mini-DIN x 1 (OUT**)			
Component/RGB	BNC x 3 (IN), BNC x 3 (OUT**)			
HD-15	D-sub 15-pin x 1 (IN)			
External Sync	BNC x 1 (IN), BNC x 1 (OUT**)			
<b>DIGITAL INTERFACE</b>				
SD-SDI Input	BKM-220D, BKM-243HS			
HD-SDI Input	BKM-243HS			
SDI with Audio Decoding	Yes			
HDMI	No			
DVI-D	DVI-D x 1 (IN)			
Option Board	2 slots (BKM-244CC, BKM-243HS, BKM-220D, BKM-229X, BKM-227W)			
<b>Control</b>				
Parallel	Modular 8-pin x 1			
Serial	D-sub 9-pin (RS-232C) x 1, RJ-45 modular connector (LAN, 10BASE-T/100BASE-TX) x 1			
<b>Audio</b>				
Audio Input/Output	Phono Jack x 2 (IN), Phono Jack x 2 (OUT)			
Built-in Speaker Out	1.0 W + 1.0 W Stereo			
<b>Features</b>				
Signal Processing	10 bit			
Color Matching	ChromaTru			
Marker	Aspect, Center, Safety Area			
Color Temperature	9300k, 6500k, user			
Closed Caption	EIA608 COMPOSITE (standard), EIA708 (BKM-244CC)			
Aspect Switch	16:9, 4:3			
Scan	0%, 5%			
Blue Only	Yes			
H/V Delay	Yes			
Tally	No	3-Color		
Smart APA	Yes			
EIA 19-inch Rack Mounting	Not Applicable		MB-529	MB-530
VESA Mounting	400 x 400 mm	100 x 100 mm		100 x 100 mm, 75 x 75 mm
Desk-top Stand	No	Supplied		No
Li-ion Battery Operation	No			
DC Operation	No	24 V		12 V
Application	MED	EDU	COR	CC GOV ENT

\* Viewable area, measured diagonally.

\*\* Loop-Through, Automatic Termination.

## Input Signal Chart

### LMD-4250W, LMD-2450W, LMD-2050W, LMD-1750W Video Input

Video Signal Formats	Input Signal				Interface					
	Total Line	Active Line	Aspect Ratio	Frame rate*1	Composite Y/C	RGB Component	SDI 4:2:2	SD-SDI HD-SDI	Composite Y/C	RGB Component
					Standard	BKM-220D	BKM-243HS	BKM-227W	BKM-229X	
575/50i (PAL)	625	575	16:9 & 4:3	25	○	○	○	○	○	○
480/60i (NTSC)	525	483	16:9 & 4:3	30	○	○	○	○	○	○
576/50p	625	576	16:9 & 4:3	50	-	○	-	-	-	○
480/60p	525	483	16:9 & 4:3	60	-	○	-	-	-	○
1080/24PsF	1125	1080	16:9	24	-	○ <sup>2</sup>	-	○	-	○ <sup>2</sup>
1080/25PsF	1125	1080	16:9	25	-	○ <sup>2</sup>	-	○	-	○ <sup>2</sup>
1080/24p	1125	1080	16:9	24	-	○ <sup>2</sup>	-	○	-	○ <sup>2</sup>
1080/25p	1125	1080	16:9	25	-	○ <sup>2</sup>	-	○	-	○ <sup>2</sup>
1080/30p	1125	1080	16:9	30	-	○ <sup>2</sup>	-	○	-	○ <sup>2</sup>
1080/50i	1125	1080	16:9	25	-	○	-	○	-	○
1080/60i	1125	1080	16:9	30	-	○	-	○	-	○
720/50p	750	720	16:9	50	-	○ <sup>2</sup>	-	○	-	○ <sup>2</sup>
720/60p	750	720	16:9	60	-	○	-	○	-	○

\*1 Compatible with 1/1.001 \*2 For component input only

### LMD-2030W, LMD-1420, LMD-1410 Video Input

System	Input Signal			Interface			
	Total Line	Active Line	Aspect Ratio	Composite Y/C	RGB Component	SD-SDI	HDMI
				Standard	Optional BKM-320D	Standard	
Model				LMD-2030W	LMD-2030W	LMD-2030W	LMD-2030W
				LMD-1420	LMD-1420	LMD-1420	LMD-1420
				LMD-1410	LMD-1410		
575/50i (PAL)	625	575	16:9/4:3	○	○	○	○ <sup>3</sup>
480/60i (NTSC) <sup>1</sup>	525	483	16:9/4:3	○	○	○	○ <sup>4</sup>
576/50P	625	576	16:9/4:3	-	○ <sup>5</sup>	-	○
480/60P	525	483	16:9/4:3	-	○ <sup>5</sup>	-	○
1080/24PsF <sup>1</sup>	1125	1080	16:9	-	○ <sup>2*5</sup>	-	-
1080/25PsF	1125	1080	16:9	-	○ <sup>2*5</sup>	-	-
1080/24P <sup>1</sup>	1125	1080	16:9	-	○ <sup>2*5</sup>	-	○
1080/25P	1125	1080	16:9	-	○ <sup>2*5</sup>	-	○
1080/30P <sup>1</sup>	1125	1080	16:9	-	○ <sup>2*5</sup>	-	○
1080/50i	1125	1080	16:9	-	○ <sup>2*5</sup>	-	○
1080/60i	1125	1080	16:9	-	○ <sup>5</sup>	-	○
720/50P	750	720	16:9	-	○ <sup>2*5</sup>	-	○
720/60P <sup>1</sup>	750	720	16:9	-	○ <sup>5</sup>	-	○

<sup>1</sup>The frame rate is also compatible with 1/1.001 frame rates. <sup>2</sup>Component signals only.  
<sup>3</sup> 720 (1440) x 576i @ 50 Hz. <sup>4</sup> 720 (1440) x 480i @ 59.94/60 Hz. <sup>5</sup> LMD-2030W only.

### LMD-9050, LMD-9030, LMD-9020 Video Input

System	Input Signal			Standard Interface			
	Total Lines	Active Line	Aspect Ratio	Composite Y/C (x 1)	RGB Component (x 1)	SDI (x2)	
				Standard	Optional BKM-320D	Standard	
Model				LMD-9050	LMD-9050	LMD-9050	LMD-9050
				LMD-9030	LMD-9030	LMD-9030	LMD-9030
				LMD-9020	LMD-9020		
575/50i	625	575	16:9/4:3	○	○	○	-
480/60i*	525	483	16:9/4:3	○	○	○	-
480/60P	525	483	16:9/4:3	-	○	-	-
576/50P	625	483	16:9/4:3	-	○	-	-
1080/24PsF	1125	1080	16:9	-	○	-	○
1080/50i	1125	1080	16:9	-	○	-	○
1035/60i*	1125	1035	16:9	-	○	-	○
1080/60i*	1125	1080	16:9	-	○	-	○
720/50P	750	1080	16:9	-	○	-	○
720/60P	750	720	16:9	-	○	-	○

\* Also accepts 59.94 Hz field rate.

### LMD-4250W, LMD-2450W, LMD-2050W, LMD-1750W Computer Input Signals

Resolution	H Total	H Addr.	V Total	V Addr.	Dot Clock (MHz)	fH (kHz)	fV (Hz)	Sync Polarity		LMD-4250W	LMD-2450W	LMD-2050W	LMD-1750W
								Horizontal	Vertical				
640x480 @60Hz*	800	640	525	480	25.175	31.469	59.940	N	N	○	○	○	○
640x480 @60Hz	800	640	494	480	23.625	29.531	59.780	P	N	○	○	○	○
720x400 @70Hz <sup>3</sup>	900	720	449	400	28.322	31.469	70.087	N	P	○	○	○	○
800x600 @56Hz*	1024	800	625	600	36.000	35.156	56.250	P	P	○	○	○	○
800x600 @60Hz*	1056	800	628	600	40.000	37.879	60.317	P	P	○	○	○	○
800x600 @60Hz	960	800	618	600	35.500	36.979	59.837	P	N	○	○	○	○
800x600 @72Hz*	1040	800	666	600	50.000	48.077	72.188	P	P	○	○	○	○
800x600 @75Hz*	1056	800	625	600	49.500	46.875	75.000	P	P	○	○	○	○
800x600 @85Hz*	1048	800	631	600	56.250	53.674	85.061	P	P	○	○	○	○
1024x768 @60Hz*	1344	1024	806	768	65.000	48.363	60.004	N	N	○	○	○	○
1024x768 @60Hz	1184	1024	790	768	56.000	47.297	59.870	P	N	○	○	○	○
1024x768 @70Hz*	1328	1024	806	768	75.000	56.476	70.069	N	N	○	○	○	○
1024x768 @75Hz*	1312	1024	800	768	78.750	60.023	75.029	P	P	○	○	○	○
1024x768 @85Hz*	1376	1024	808	768	94.500	68.677	84.997	P	P	○	○	○	○
1152x864 @75Hz*	1600	1152	900	864	108.000	67.500	75.000	P	P	○	○	○	-
1280x768 @50Hz	1648	1280	791	768	65.125	39.518	49.959	N	P	○	○	○	○
1280x768 @60Hz	1680	1280	795	768	80.125	47.693	59.992	N	P	○	○	○	○
1280x768 @60Hz	1440	1280	790	768	68.250	47.396	59.995	P	N	○	○	○	○
1280x768 @75Hz	1712	1280	802	768	102.875	60.091	74.926	N	P	○	○	○	○
1280x800 @60Hz <sup>1</sup>					68.900	48.935	59.969	N	N	○	○	○	○
1280x960 @60Hz*	1800	1280	1000	960	108.000	60.000	60.000	P	P	○	○	○	-
1280x960 @60Hz	1440	1280	988	960	85.250	59.201	59.920	P	N	○	○	-	-
1280x1024 @60Hz*	1688	1280	1066	1024	108.000	63.981	60.020	P	P	○	○	○	○
1280x1024 @60Hz	1440	1280	1054	1024	91.000	63.194	59.957	P	N	○	○	○	○
1360x768 @50Hz	1760	1360	791	768	69.500	39.489	49.922	N	P	○	○	○	-
1360x768 @60Hz	1776	1360	768	768	84.625	47.649	59.936	N	P	○	○	○	-
1360x768 @60Hz	1520	1360	790	768	72.000	47.368	59.960	P	N	○	○	○	-
1600x1200 @50Hz	2144	1600	1235	1200	132.375	61.742	49.994	N	P	-	○	-	-
1600x1200 @60Hz*	2160	1600	1250	1200	162.000	75.000	60.000	P	P	-	○	-	-
1600x1200 @60Hz	1760	1600	1235	1200	130.375	74.077	59.981	P	N	-	○	-	-
1920x1080 @50Hz	2544	1920	1112	1080	141.375	55.572	49.975	N	P	○	○	○	○
1920x1200 @50Hz	2560	1920	1235	1200	158.000	61.719	49.975	N	P	-	○	-	-
1920x1080 @60Hz	2080	1920	1111	1080	138.625	66.647	59.988	P	N	○	○	○	○
1920x1200 @60Hz	2080	1920	1235	1200	154.125	74.099	59.999	P	N	-	○	-	-
1920x1200 @60Hz <sup>2</sup>	2120	1920	1212	1200	154.000	74.642	59.935	P	P	-	○	-	-

○ = VESA-DMT ○ = VESA-CVT VCRT

N = Negative P = Positive \* SOG <sup>1</sup> Anycast Station <sup>2</sup> Sony SDM-P232W Digital <sup>3</sup> Matrix

## Distributed by

# LUMA Series Monitor Line-up

## Entry-level Type

Model No.	LMD-2030W	LMD-1420	LMD-1410						
PANEL Type	a-Si TFT Active Matrix								
Picture Size*	20-inch	14-inch							
Picture Resolution	1680 x 1050 pixels	640 x 480 pixels							
Panel Aspect Ratio	16:10	4:3							
Panel Bit Depth	8 bit								
INPUT/OUTPUT CAPABILITY	HD (Digital/Analog)/SD (Digital/Analog)	HD (Analog)/SD (Digital/Analog)	HD (Analog)/SD (Analog)						
Acceptable Computer System	No								
ANALOG VIDEO									
Composite	BNC x 1 (IN), BNC x 1 (OUT**)	BNC x 2 (IN), BNC x 2 (OUT**)							
Y/C	4-pin Mini-DIN x 1 (IN), 4-pin mini-DIN x 1 (OUT**)								
Component/RGB	BNC x 3 (IN), BNC x 3 (OUT**), RCA Phono Jack x 1 (IN), RCA Phono Jack x 1 (OUT**)								
HD-15	No								
External Sync	BNC x 1 (IN), BNC x 1 (OUT**)		No						
DIGITAL INTERFACE									
SD-SDI Input	BKM-320D, RCA Phono Jack x 1 (IN) No		No						
HD-SDI Input	No								
SDI with Audio Decoding	No								
HDMI	Yes	No							
DVI-D	No								
Option Board	D-sub 9-pin x 1, (BKM-320D IN)								
Control									
Parallel	Modular 8-pin x 1								
Audio									
Audio Input/Output	RCA Phono Jack x 1 (IN), RCA Phono Jack x 1 (OUT**)	RCA Phono Jack x 2 (IN), RCA Phono Jack x 2 (OUT)							
Built-in Speaker Out	0.5 W Mono								
Features									
Signal Processing	8 bit								
Marker	Aspect, Center	Aspect, Center, Safety Area	No						
Color Temperature	High, Low, User								
Aspect Switch	16:9, 4:3								
Scan	-3%, 5%								
Blue Only	Yes	No							
H/V Delay	No								
Tally	3-Color		No						
EIA 19-inch Rack Mounting	MB-529	MB-526							
VESA Mounting	100 x 100 mm								
Desk-top Stand	Supplied								
Li-ion Battery Operation	No								
DC Operation	No								
Application	MED	EDU	COR	CC	GOV	SEC	ENT	SYS	FAC

\* Viewable area, measured diagonally. \*\* Loop-Through, Automatic Termination.

## Handheld Type

Model No.	LMD-9050	LMD-9030	LMD-9020		
PANEL Type	a-Si TFT Active Matrix				
Picture Size*	8.4-inch				
Picture Resolution	1024 x 768 pixels	640 x 480 pixels			
Panel Aspect Ratio	4:3				
INPUT/OUTPUT CAPABILITY	HD (Digital/Analog)/SD (Digital/Analog)	HD (Analog)/SD (Digital/Analog)	HD (Analog)/SD (Analog)		
Acceptable Computer System	No				
ANALOG VIDEO					
Composite	BNC x 2 (IN), BNC x 2 (OUT)				
Y/C	4-pin Mini-DIN x 1 (IN), 4-pin mini-DIN x 1 (OUT)				
Component/RGB	BNC x 3 (IN), Mini Jack x 1 (IN)				
HD-15	No				
External Sync	BNC x 1 (IN)				
DIGITAL INTERFACE					
SD-SDI Input	BNC x 2 (IN) BNC x 1 (OUT)	BNC x 2 (IN) BNC x 1 (OUT)	No		
HD-SDI Input	Automatic Detection	No			
SDI with Audio Decoding	Yes		No		
Control					
Parallel	Modular 8-pin x 1				
Audio					
Audio Input/Output	Mini Jack x 2 (IN), Mini Jack x 1 (OUT)				
Built-in Speaker Out	0.5 W Mono				
Features					
Marker	Aspect, Center				
Color Temperature	High, Low, User				
Aspect Switch	16:9, 4:3				
Scan	-3%, 0%, 5%				
Blue Only	Yes				
Tally	3-Color				
EIA 19-inch Rack Mounting	MB-525, MB-528				
Desk-top Stand	Supplied				
Li-ion Battery Operation	Yes				
DC Operation	Yes				
Application	EDU	COR	CC	GOV	FAC

\* Viewable area, measured diagonally.

## Multi-display Type

Model No.	LMD-7220W	LMD-5320	LMD-4420			
PANEL Type	a-Si TFT Active Matrix					
Picture Size*	7-inch x 2	5.6-inch x 3	4-inch x 4			
Picture Resolution	480 x 234 pixels	320 x 234 pixels	480 x 234 pixels			
Panel Aspect Ratio	16:9	4:3				
INPUT/OUTPUT CAPABILITY	HD (Analog)/SD (Digital/Analog)					
Acceptable Computer System	No					
ANALOG VIDEO						
Composite	{ BNC x 1 (OUT**) } x 2 monitors	{ BNC x 1 (OUT**) } x 3 monitors	{ BNC x 1 (OUT**) } x 4 monitors			
DIGITAL INTERFACE						
SD-SDI Input	BKM-320D x 2	BKM-320D x 3	BKM-320D x 4			
Option Board	{ D-sub 9-pin x 1, (BKM-320D IN) } x 2 monitors	{ D-sub 9-pin x 1, (BKM-320D IN) } x 3 monitors	{ D-sub 9-pin x 1, (BKM-320D IN) } x 4 monitors			
Control						
Parallel	{ Modular 8-pin x 1 } x 2 monitors	{ Modular 8-pin x 1 } x 3 monitors	{ Modular 8-pin x 1 } x 4 monitors			
Features						
Tally	3-Color					
EIA 19-inch Rack Mounting	MB-525, MB-528					
Desk-top Stand	Supplied					
Li-ion Battery Operation	No					
DC Operation	Yes					
Application	EDU	COR	CC	GOV	SEC	CON

\* Viewable area, measured diagonally.

\*\* Loop-Through, Automatic Termination.

### Application Icons

- MED Medical
- EDU Education
- COR Corporate
- CC Content Creation
- GOV Government
- SEC Security
- ENT Entertainment
- SYS System Integrator
- FAC Factory