



Key Benefits

- ▶ MIL-STD-810H standard
- ▶ 2U 22" short depth and light weight design
- ▶ Rugged construction for mobility & durability
- ▶ Built-in solid bearing slide rails
- ▶ Built-in dual stereo speaker (per display)
- ▶ Four LED backlit display selections (4K, WUXGA, FHD, 4:3)
- ▶ DP + HDMI + VGA video inputs (per display)
- ▶ 104-key USB keyboard with either touchpad or trackball
- ▶ Fits 24" ~ 36" rack via adjustable mounting brackets
- ▶ 2-year standard warranty (upgradable up to 5 years)



Options

- Sunlight-readable brightness 17.3" FHD & 19" panels available
- 3G / HD / SD-SDI Broadcast-grade input + Speakers (SDI)
- Sealed silicone IP keyboard with either touchpad or trackball
- USB keyboard & mouse selector
- Military CAC USB card reader
- MIL power input connector (MS3470W8-33P)
- DC power : 12V / 24V / 48V / 125V / 250V
- LCD protection : Anti-glare, AR & EMC glass
- Touchscreen



The MIL MRK 2U dual or triple display console drawer is designed for Command and Control Systems that demand quick deployment of side-by-side displays. The multi-display solution is meticulously crafted to comply with MIL-STD-810H environmental standards, guaranteeing military-grade durability and ensuring equipment withstands extreme shock, vibration, and temperatures for unwavering reliability in the harshest environments.

The 2U, 22-inch-deep platform enables a compact footprint and transit-case portability. To ensure chassis ruggedness, mobility, and high quality in demanding environments, the MRK drawer is precision-constructed by a team of experts in our state-of-the-art CNC facilities.

Another key benefit of the MRK series is the choice of various panel resolutions, including 4K 17.3", WUXGA 16.2", FHD 17.3", and 19" regular LED-backlit displays. Sunlight-readable FHD 17.3" and 19" LCDs are also available. 4K 17.3" displays satisfy the increasing demand for high-resolution graphics and clear text readability. A solid keyboard is integrated with either a touchpad or a trackball.

Models



17.3" 4K	MRK-K17-3	MRK-K17-2C	MRK-K17-2L	MRK-K17-2R
17.3" FHD	MRK-F17-3	MRK-F17-2C	MRK-F17-2L	MRK-F17-2R
16.2" WUXGA	MRK-X17-3	MRK-X17-2C	MRK-X17-2L	MRK-X17-2R
19" 4:3	MRK-19-3		MRK-19-2L	MRK-19-2R

Product Specifications

LCD Panel	MRK-K17	MRK-F17	MRK-X17	MRK-19
Native resolution	3840 x 2160@60Hz	1920 x 1080	1920 x 1200	1280 x 1024
Panel size (diagonal)	17.3"	17.3"	16.2"	19"
Refresh rate (Hz)	60	60	60	60 / 75
Standard Brightness (cd/m ²)	400	300	300	250
High Brightness (cd/m ²) - Option	/	☀ 1000	/	☀ 1000
Contrast ratio (typ.)	1000 : 1	1000 : 1	800 : 1	1000 : 1
Colors	16.7 M, 8-bit	16.7 M, 8-bit	16.7 M, 8-bit	16.7 M
Viewing angle (L/R/U/D)	89/89/89/89	85/85/85/85	89/89/89/89	85/85/80/80
Response time (ms)	16	25	30	5
Dot pitch (mm)	0.0995	0.1989	0.191	0.294
Display area (mm)	382.12H x 214.94V	381.888H x 214.812V	383.8H x 214.9V	337.92H x 270.33V
Surface treatment	Anti-glare	Anti-glare, Hard-coating	Anti-glare, Hard-coating	Haze 25%, Hard-coating
Surface hardness	3H			
Backlight type	LED			
MTBF (hrs)	50,000	50,000	50,000	30,000

AC power Input		Auto-sensing 100 to 240VAC, 50 / 60Hz			
Power Consumption	Screen on	Max. 21W	Max. 14W	Max. 25W	Max. 22W
	Power saving	Max. 2W			
	Power button off	Max. 1W			

Video Input	DP + HDMI + VGA
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Physical		MRK-K17	MRK-F17	MRK-X17	MRK-19
Product (W x D x H)		441.6 x 550 x 88 mm 17.4 x 21.7 x 3.5 inch			441.6 x 600 x 88 mm 22.8 x 23.6 x 7.8 inch
Packing (W x D x H)		580 x 683 x 197 mm 22.8 x 26.9 x 7.8 inch			581 x 753 x 216 mm 22.9 x 29.7 x 8.5 inch
Net Weight	Triple display	25.7 kg / 56.5 lb			26.7 kg / 58.7 lb
	Dual display	21 kg / 46.2 lb			21 kg / 46.2 lb
Gross Weight	Triple display	31.1 kg / 68.4 lb			32.1 kg / 70.6 lb
	Dual display	26 kg / 57.2 lb			27 kg / 59.4 lb
Chassis color / materials		Dark / Steel			

* All dimensions stated are subject to change if options are selected / integrated to base model part codes

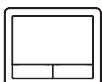
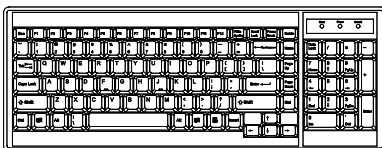
Military Environment MIL-STD-810H Standard	
MIL-STD-810H, Method 502.7 & 501.7	Operation temp : -20 to 65°C
	Storage temp : -30 to 60°C
MIL-STD-810H, Method 500.6-i-500.6-8	Operation altitude : 10,000 ft
	Storage altitude : 30,000 ft
MIL-STD-810H, Method 507.6	Humidity: 10% - 90%, non-condensing
MIL-STD-810H, Method 516.8 & 514.8	Shock/Vibration : Procedure VI, 50G @11ms

Certificate

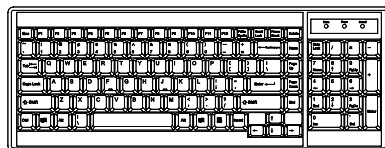
CE/ EMC EN55032/ EN55035
CE/ LVD EN62368
FCC sub part 15B
RoHS 3 & REACH & WEEE

Standard Keyboard

Ge G keyboard with touchpad



Gb G keyboard with trackball



Supporting layouts

America



U.S.

EMEA



U.K.



Germany



France



Spain



Italy

Asia



Japan



Korea

Options

Capacitive Touch screen Option

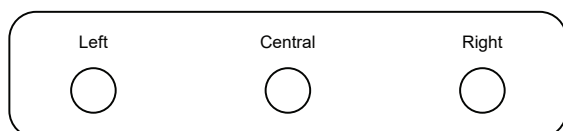
	MRK-K17	MRK-F17	MRK-X17
Technology	Projected Capacitive		
Touch Point	10 point touch standard		
Input Type	Finger or Capacitive Stylus		
Resolution	4096 x 4096		
Touch Point Accuracy	± 2 mm		
Response Speed	< 5 ms		
Activation Force	< 5 g		
Surface Hardness	6H		
Light Transmission	> 85%		
Haze	3%↓		
Durability	50 million touches		
Top Layer	1.8 mm Glass		
Bottom Layer	0.7 mm Sensor Glass		
Thickness	2.7 mm ± 0.1 mm		
Connector	USB		
Compatibility	Windows 7 / XP / Linux / Mac		

Resistive Touch screen Option

	MRK-K17	MRK-F17	MRK-X17	MRK-19
Technology	5-Wire Resistive			
Touch Point	Single			
Input Type	Finger or Stylus			
Resolution	2048 x 2048			
Response Speed	15 ms			
Activation Force	≤ 50 g			
Surface Hardness	3H			
Light Transmission	80% ± 3%			
Haze	8% ± 3%			
Durability	10 million touches			
Top Layer	ITO Film			
Bottom Layer	ITO Glass			
Thickness	3.2 ± 0.2 mm	2.2 ± 0.2 mm	3.2 ± 0.2 mm	2.2 ± 0.2 mm
Connector	USB Type A			
Compatibility	Windows 7 / XP / Linux / Mac			

USB Keyboard & Mouse Selector

Optional USB keyboard and mouse selector allows keyboard and mouse to be shared between 2 or 3 computers. Users can select and switch to any of the connected computers with the press of a button.



Selection of Keyboard & Mouse Control

- Left button : Left side LCD and computer connected
- Central button : Central LCD and computer connected
- Right button : Right side LCD and computer connected

Waterproof Backlight Silicone IP Keyboard

Me Sealed silicone IP keyboard and touchpad



- IP65 rated protection
- Actuation Force : 1.0N+/-0.1N
- Red LED backlight
- Key switch lifetime : 3 mil. Operations

Mb Sealed silicone IP keyboard and trackball

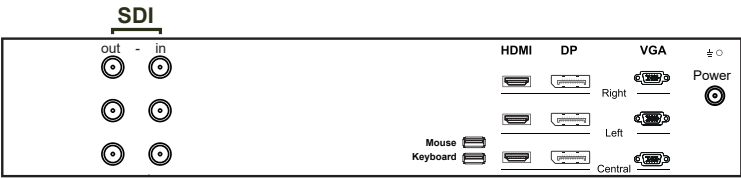


- IP67 rated protection
- Actuation Force : 1.0N+/-0.1N
- Blue LED backlight
- Key switch lifetime : 3 mil. Operations

Options

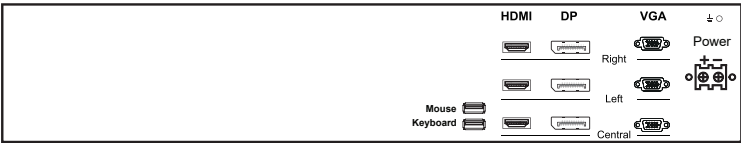
3G / HD / SD-SDI Broadcast-grade input

- Meets the demanding requirements of professional broadcast video and high-resolution CCTV markets.
- Supports high-definition resolutions up to 1080p @ 60Hz.



DC power : 12V / 24V / 48V / 125V / 250V

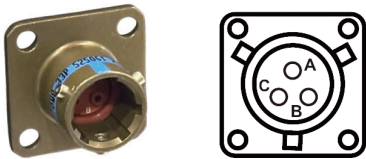
Model	12V	24V	48V	125V	250V
Input rating					
Input voltage	12-Volt	24-Volt	48-Volt	110-Volt	300-Volt
Input range	9 ~ 18V	18 ~ 36V	36 ~ 75V	66 ~ 160V	180 ~ 425V
Input current					
No load	50 mA	50 mA	50 mA	35 mA	10 mA
Full load	4950 mA	2450 mA	1220 mA	749 mA	600 mA
Output rating					
Output voltage	12-Volt	12-Volt	12-Volt	12-Volt	12-Volt
Output current	4.16A	4.16A	4.16A	6.25A	6.25A
Efficiency	84%	85%	85%	91%	86%



DC power

MIL Power Input

- Connector : 3-pin lockable MS3470W8-33P for AC or DC power
- AC power : adaptor with auto-sensing 85 to 264VAC, 50 / 60Hz
- DC power : selection of 12V, 24V, 48V, 125V, or 250V

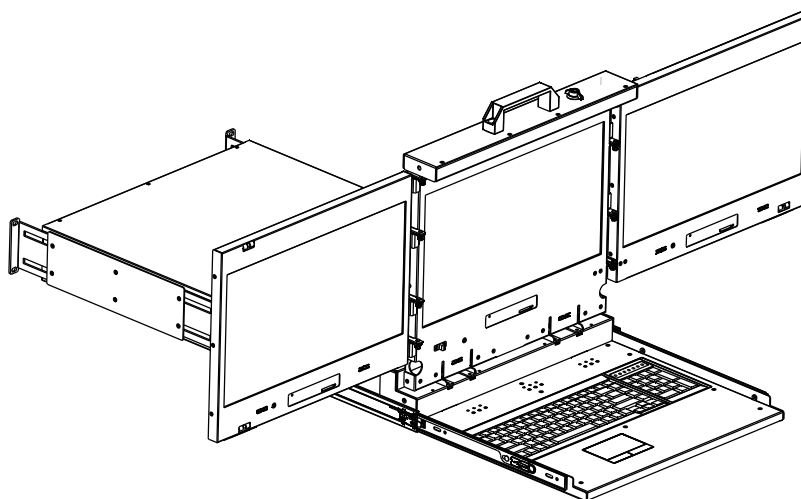


Military CAC USB card reader

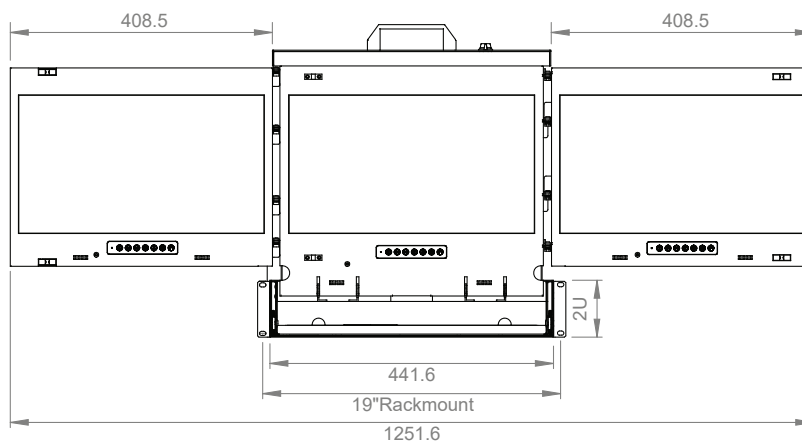
- USB 2.0 Type A
- Plug & Play
- Slot Count : 1
- Supported OS : Linux, Microsoft, Windows



Triple screens



Front View



Rear View

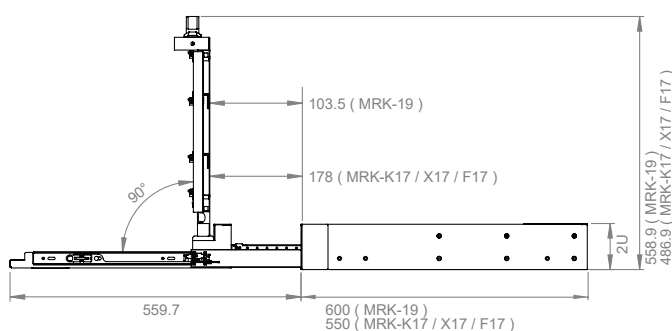
Standard



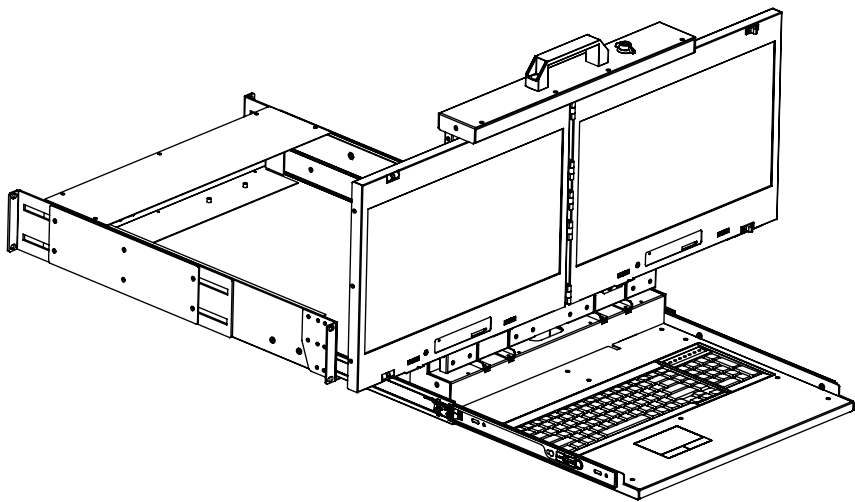
Add-on Keyboard & Mouse Selector



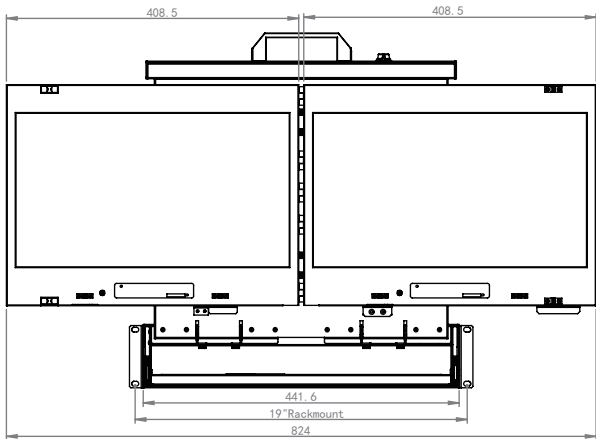
Side View



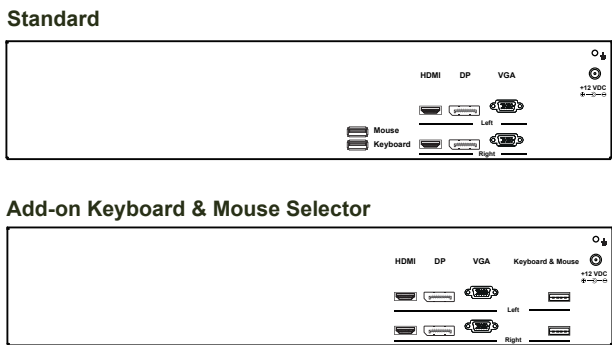
Dual screens - center open



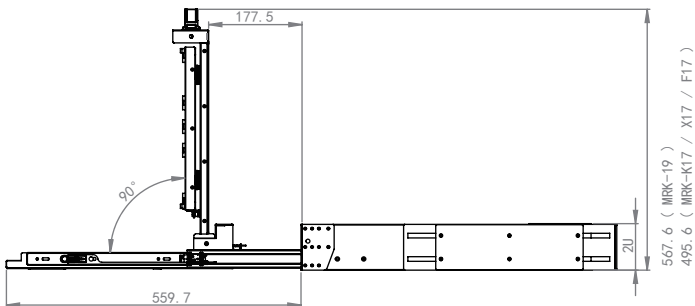
Front View



Rear View

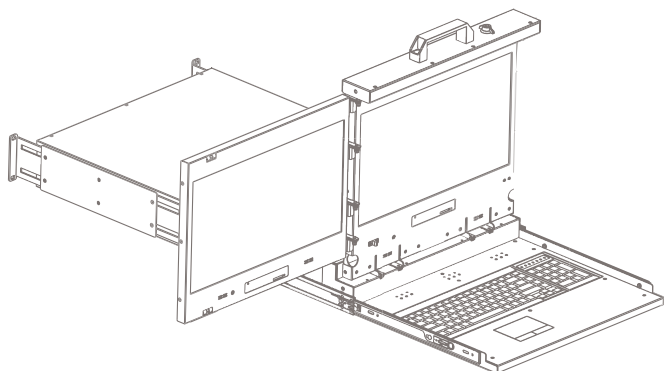


Side View

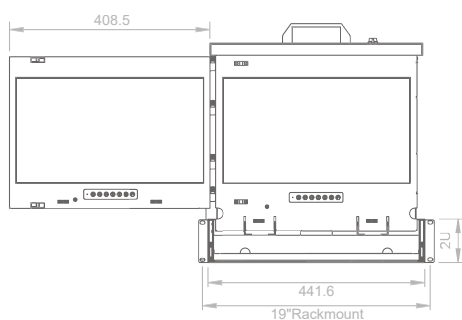
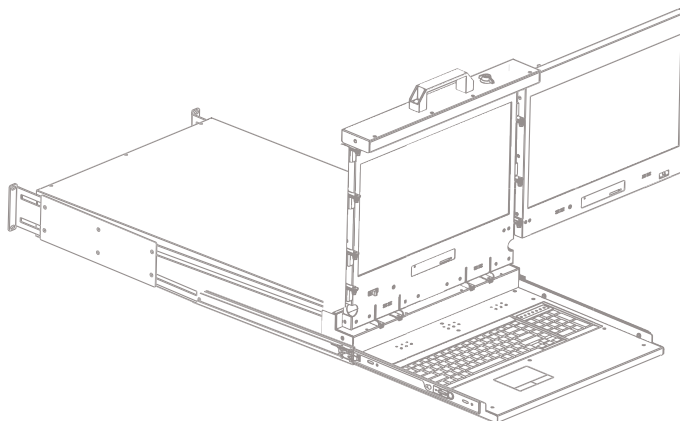


Diagrams (mm)

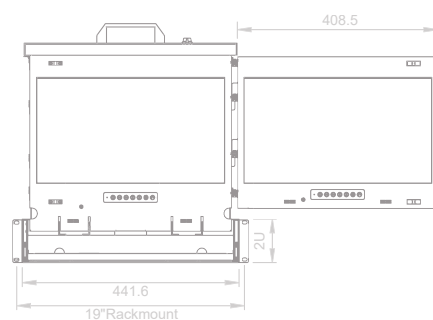
Dual screens - left open



Dual screens - right open



Front View

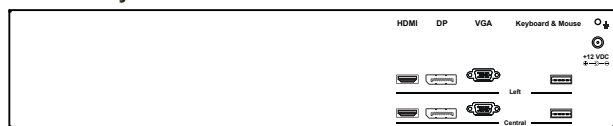


Rear View

Standard



Add-on Keyboard & Mouse Selector



Rear View

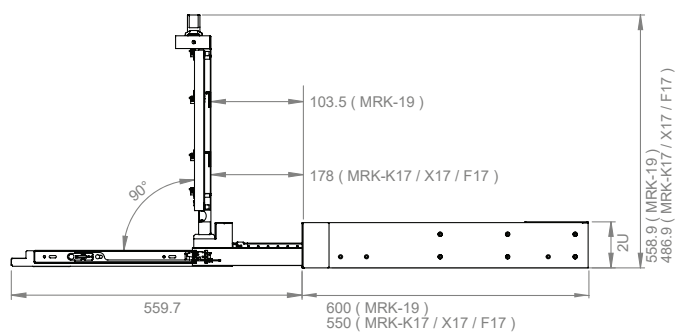
Standard



Add-on Keyboard & Mouse Selector



Side View



Founded in 1995, **Austin Hughes** is a design and manufacturing group that offers a broad range of solutions based around 19 inch rack mount technology: the UltraRack IT server rack series, InfraRack intelligent rack solutions, InfraPower intelligent remote management power solutions, InfraCool intelligent remote cooling systems, InfraGuard environmental sensors and peripherals, InfraSolution remote locking and access control, CyberView LCD KVM switches, UltraView professional displays, Military MIL-810 & Marine-60945 Solutions.

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