

Military Grade Rack mount LCD/Keyboard/Trackball GMIL2-15 / GMIL2-17 / GMIL2-19 Series (2U)

Overview

- Low Profile 2U (3.50") Flip-up Display Enclosure
- Rugged All-Metal Construction
- Integral Keyboard/Pointing Device (Commercial, Industrial, Military)
- Torque-Adjustable Friction Hinges (up to 80 in-lbs. each)
- Total Design Control Facilitates Customization
- Promotes Configuration Control and Extended Product Life Cycle
- LCD Displays from 15.0" to 20.1" Diagonal Viewing Area
- Protective Glass Overlay with Sealed Gasket on Select Models
- High Performance LCD Controller
- Supports Resolutions up to 1280 x 1024 Pixels
- Supports Separate, Composite, Sync-On-Green and STANAG 3350 A S-O-G Analog Video
- Advanced Imaging Features
- Laptop-style Enclosure Requires Least Amount of Operator Workspace in its Class
- Most Keyboard/Pointing Devices Meet Military Standards for Sealing and Shock/Vibration
- Several Models Customer Certified to MIL-STD-810, MIL-STD-901 and TEMPEST Level 2
- Optional Support for NTSC, SECAM, PAL, S-Video and RS-170 Live Video
- Optional Support for DVI-A, DVI-D and DVI-I Analog, Digital and Integrated Video
- Freestanding and Rack Mount Power Supplies Available
- Cable Management System and MIL-901 Enhancement Package Available
- Many More Options and Accessories Available



15"
LCD



17"
LCD



19"
LCD



30081 Ahern Ave, Union City CA 94587
Tel: 1-510-429-9288, 1-888-483-2418 Fax: 1-510-372-2736
www.i-techcompany.com

Display

Series	Size (Diagonal)	Viewing Area (WxH)	Resolution (Pixels)	Num. Of Colors	Luminance (Max)	Contrast (Max)	Response Time (Rise/Decay)	Horizontal Viewing Angle	Vertical Viewing Angle	Shock	Vibration
Gmil2-15	15"	11.97" x 8.98"	1024x 768	16.7M	280 nits	500:1	7/23 ms	+/- 60°	+40°, -60°	50G, 6ms Sine Wave	2.0G (10-500 Hz)
Gmil2-17	17"	13.3" x 10.64"	1280 x 1024	16.2M	300 nits	700:1	2/6 ms	+/- 75°	+75°, -60°	50G, 11ms Sine Wave	1.5G (10-300 Hz)
Gmil2-19	19"	14.81" x 11.85"	1280 x 1024	16.7M	250 nits	600:1	13/7 ms	+/- 85°	+/- 85°	50G, 11ms Sine Wave	1.5G (10-300 Hz)
Gmil2-20	20.1"	16.06" x 12.05"	1600 x 1200	16.7M	250 nits	700:1	15/10 ms	+/- 85°	+/- 85°	50G, 20ms Sine Wave	1.5G (10-200 Hz)

Video Controller

V	Display Supported	640 x 400	640 x 480	720 x 400	800 x 600	1024 x 768	1280 x 1024	1600 x 1200	Scaling	NTSC/SECAM/PAL/RS-170	Video Supported
APV	15"/17"/19"/20"	70, 85 Hz	60, 67, 72, 75, 85 Hz	70, 85 Hz	56, 60, 72, 75, 85 Hz	60, 70, 72, 75, 85 Hz	60, 72, 75, 85 Hz	No	On/Off	Analog Processor, Picture-in-Picture	Separate, Composite, Sync-On-Green
DPV	15"/17"/19"/20"	70, 85 Hz	60, 67, 72, 75, 85 Hz	70, 85 Hz	56, 60, 72, 75, 85 Hz	60, 70, 72, 75, 85 Hz	60, 72, 75, 85 Hz	60, 70, 75, 85 Hz	On/Off	Digital Processor, Picture-in-Picture	Separate, Composite, Sync-On-Green
DPV-DVI	15"/17"/19"/20"	70, 85 Hz	60, 67, 72, 75, 85 Hz	70, 85 Hz	56, 60, 72, 75, 85 Hz	60, 70, 72, 75, 85 Hz	60, 72, 75 Hz	60 Hz	On/Off	Digital Processor, Picture-in-Picture	DVI-D, Separate, Composite, Sync-On-Green

MTBF

Series	Display	Backlight	Inverter	Power Supply (Optional)
Gmil2-15	> 50,000 Hours	> 50,000 Hours (Typ.)	182,000 Hours	Depends on Supply Selected
Gmil2-17	> 50,000 Hours	> 50,000 Hours (Typ.)	182,000 Hours	Depends on Supply Selected
Gmil2-19	> 50,000 Hours	> 50,000 Hours (Typ.)	182,000 Hours	Depends on Supply Selected
Gmil2-20	> 50,000 Hours	> 50,000 Hours (Typ.)	182,000 Hours	Depends on Supply Selected

Environmental

Series	Operating Temp	Storage Temp	Operating Humidity	Storage Humidity	Operating Altitude	Storage Altitude
Gmil2-15	0 °C to 50 °C	-20 °C to 60 °C	20% to 85% RH Non-condensing	5% to 85% RH Non-condensing	10,000 feet	40,000 feet
Gmil2-17	0 °C to 50 °C	-25 °C to 60 °C	20% to 90% RH Non-condensing	5% to 90% RH Non-condensing	10,000 feet	40,000 feet
Gmil2-19	0 °C to 50 °C	-20 °C to 60 °C	20% to 95% RH Non-condensing	5% to 95% RH Non-condensing	10,000 feet	40,000 feet
Gmil2-20	0 °C to 50 °C	-20 °C to 60 °C	8% to 95% RH Non-condensing	8% to 95% RH Non-condensing	10,000 feet	30,000 feet

Mechanical

Series	Dimensions (H x W x D)	Construction	Finish	Operating weight	Shipping Weight
Gmil2-15	2.88"(1U) x16"x14"	5052-H32 Aluminum/Steel	Black matte powder coat & clear iridite	17 lbs	26 lbs
Gmil2-17	2.88"(1U) x16"x17"	5052-H32 Aluminum/Steel	Black matte powder coat & clear iridite	19 lbs	28 lbs
Gmil2-19	2.88"(1U) x16"x17"	5052-H32 Aluminum/Steel	Black matte powder coat & clear iridite	19 lbs	28 lbs
Gmil2-20	2.88"(1U) x16"x17"	5052-H32 Aluminum/Steel	Black matte powder coat & clear iridite	21 lbs	30 lbs

I/O Connections

Power (DC)	Analog video	Keyboard/Pointing Device	On/Standby (DC)	S-Video (Optional)	Composite Video (Optional)
3-pin circular, locking	High density 15-pin socket	DE-9 Socket or 6-pin mini DIN	LED on Membrane pad	4-pin mini DIN	BNC socket

19" Rack Adaptor

Model	Part Number	Model Supported	Dimensions (H x W x D)	Rear Mounting Brackets	Construction	Finish
Rack Adaptor kit 28	90-751-A	GMIL2-15	3.5" (2U) x 19" x17"	18" – 28" (adjustable)	0.125"/0.090" Aluminum	Black Matte Powder Coat & Clear Iridite
Rack Adaptor kit 34	90-752	GMIL2-15	3.5" (2U) x 19" x17"	28" – 34" (adjustable)	0.125"/0.090" Aluminum	Black Matte Powder Coat & Clear Iridite
Rack Adaptor kit 30	90-753	GMIL2-17/ GMIL2-19/ GMIL2-20	3.5" (2U) x 19" x19"	20" – 30" (adjustable)	0.125"/0.090" Aluminum	Black Matte Powder Coat & Clear Iridite
Rack Adaptor kit 36	90-754	GMIL2-17/ GMIL2-19/ GMIL2-20	3.5" (2U) x 19" x19"	30" – 36" (adjustable)	0.125"/0.090" Aluminum	Black Matte Powder Coat & Clear Iridite

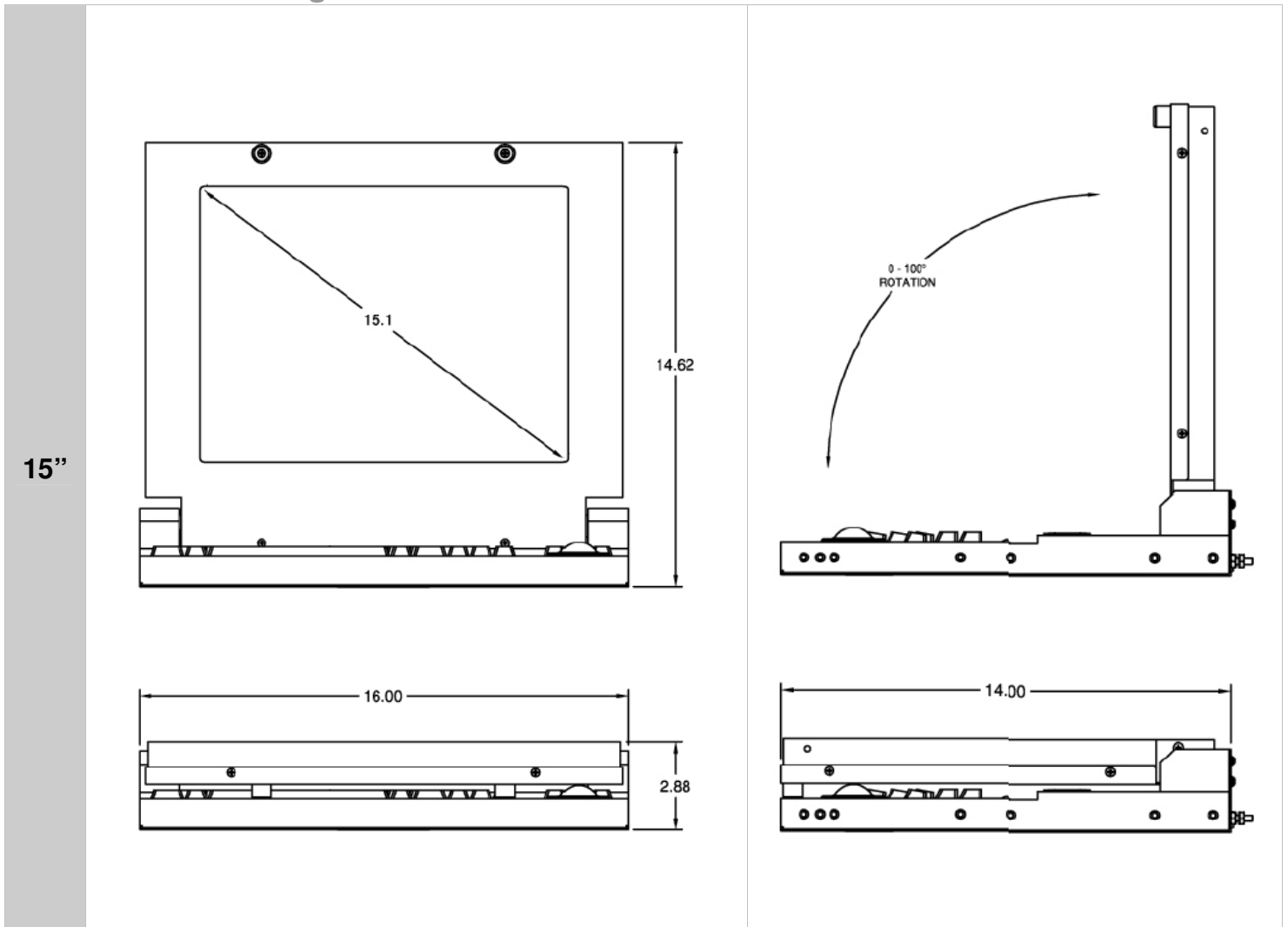
Military Ruggedized Enhancement options

GD P/N	Description
90-165	Military Ruggedized Enhancement Kit: GMIL2 Series 17"/19"/20" (Including Sunlight & Daylight Readable), Cable Management Guide and Mounting Plate, LCD Restraining Brackets
90-164	Military Ruggedized Enhancement Kit: GMIL2 Series 15" (Including Sunlight & Daylight Readable), Cable Management Guide and Mounting Plate, LCD Restraining Brackets
90-161	1U (1.75" high) Power Supply with Military AC Power Input Connector and Dual Fuse Holders (to be used with either 90-165 or 90-164) Note: AC line cord with mating military connector available (P/N 200-001-001); consult a Sales Engineer for details.

Other

Optical Bonding	Bonding of filter and display using indice-matched optical materials
Video Accessories	Video cables, signal extenders, cable adaptors (HD 15-pin, 13W3 [SUN], BNC), NTSC/PAL support, picture-in-picture, SXGA support
Remote Control	IR or serial calibration/control interface
Customization	Custom mechanical and electrical modifications, custom paint

Mechanical Drawing

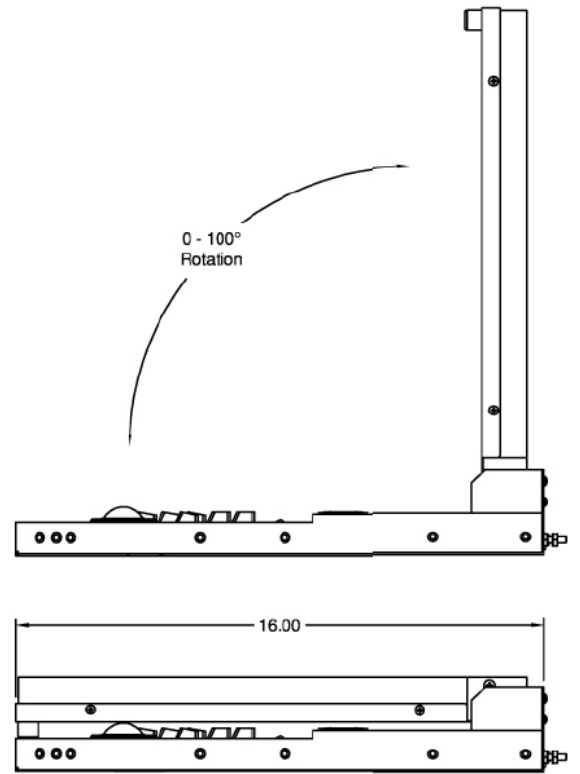
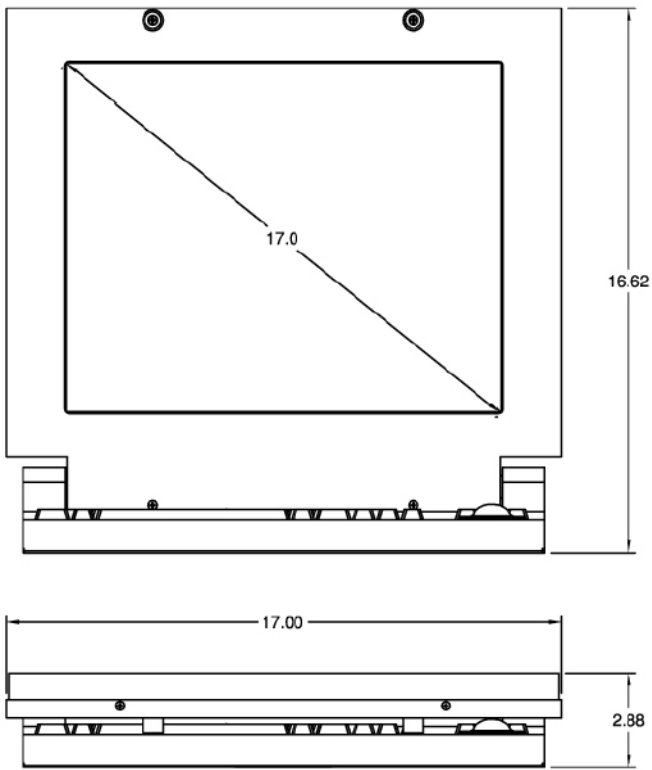


30081 Ahern Ave, Union City CA 94587

Tel: 1-510-429-9288, 1-888-483-2418 Fax: 1-510-372-2736

www.i-techcompany.com

17''



19''

