

BA Series

Public transportation



BA900

9"

BA905



BA1200

12"

BA1230



BA1560

15.6"

BA1560



BA2000

20"

BA2001
BA2006



BA2150

21.5"

BA2151
BA2156



BA2380

23.8"

BA2380



BA2900

29"

BA2901
BA2902
BA2903
BA2905
BA2906



BA3200

32"

BA3201
BA3205



- 9 inches Embedded Display.
- Wide viewing angle and high brightness.
- Integrated Intel Atom or ARM Quad Core CPU.
- Optional protection glass or touch panel.
- Fully configurable manual and automatic dimmer.
- Metal frame.
- Wide power supply options available.
- Extended operating temperature range.
- LED backlight lifetime min. 50.000h.

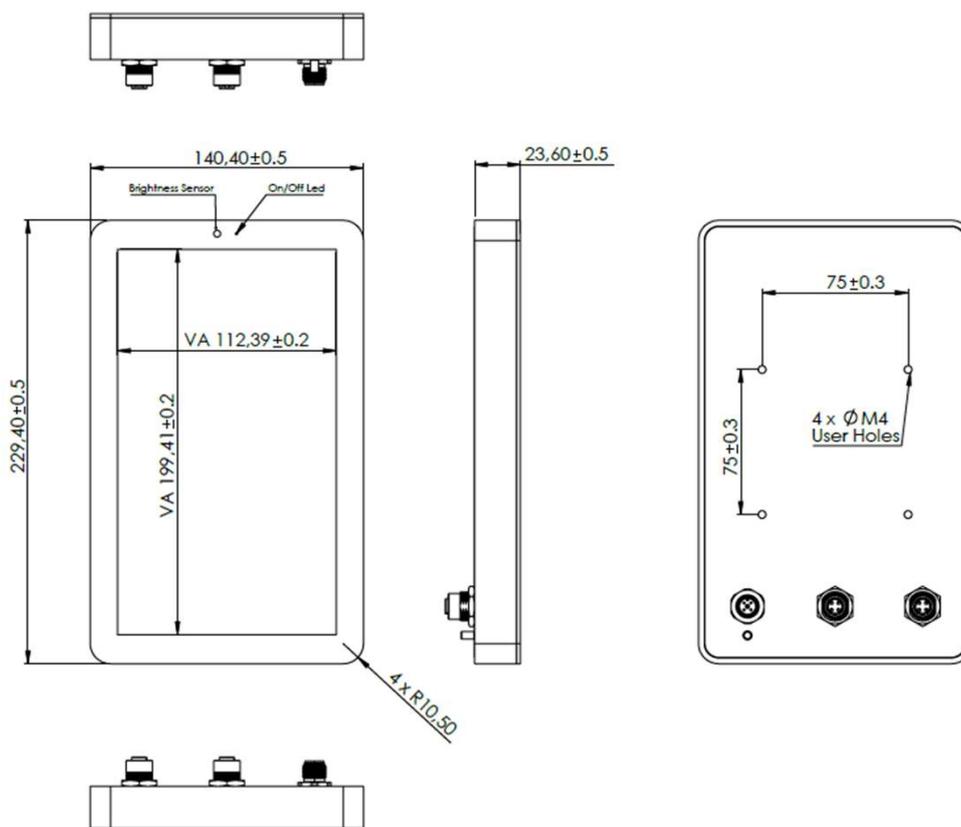


General Specification	
Size	9.0 inches
Resolution / Aspect	1280×720 px
Display Area	198.9 × 111.8 mm
Inputs	Ethernet / USB / UART
Audio	Optional Audio Output Stereo 2x1.5W / 2x5W
Cover Lens / Touch	Glass / PMMA / Projected Capacitive Touch
Power Supply	9-36VDC / 43-160VDC / 14-160VDC - Isolated -M12 A Coded
Power Consumption	Average: 10W. Maximum 15W
MTBF / Lifespan	Controller and LCD: >80,000h Backlight: min. 50.000h (Autodimming function)
Warranty	24 months
Certification	EN50155* EN45545*
Mounting Type	Stand Alone
IP	IP65 front, IP40 rear. Optional full IP65
Mechanical and Environment	
Dimension	(see drawing for details)
Weight	1.5Kg
Enclosure	Aluminum, Powder Paint
Operation Temp.	-25°C to 70°C
Storage Temp.	-30°C to 80°C
Vibrations / Shock	1G 2-500Hz / 10G 11ms
Optical Specification	
Brightness	700 nits (typ), LED backlight.
Dimmer	Fully configurable Dimmer with Internal Sensor (optional)
Contrast Ratio	Min 1000:1
Viewing Angle	170° H, 170° V
Response Time	15 ms
Optical Finish (optional)	Anti-glare / Anti-reflective / None
Enhancements (Optional)	Sunlight Readable and Transflective Enhancements Available

*Upon request

CPU Specification (ARM)	
Cores	Quad-core ARM Cortex-A17
Frequency	1.8GHz
DDR	Up to 4G DDR4
Graphics	Mali-T760 MP4 GPU
Storage	Internal 8 to 16G eMMC , external TF/SD
Watchdog	Configurable watchdog
CPU Specification (Intel)	
Cores	E3815 Single Core / E3825 Dual Core / E3845 Quad Core
Frequency	1.46Ghz / 1.33Ghz / 1.91Ghz
DDR	Up to 4G DDR4
Graphics	Intel Graphics
Storage	Internal 8 to 16G eMMC , external C-FAST / TF
Watchdog	Configurable watchdog
I/O	
Ethernet	1 x Base 10/100, Optional Gigabit, M12 Connector D Coded
USB	USB 2.0 (M12 connector)
Ignition	Integrated digital input for IGN control
RS232/485	Optional RS232 / RS485 Port (M12 Connector)
Digital I/O	8 Input or 4 in 4 Out (Optional)
Video	Optional DVI / HDMI Output
Audio	Optional Line In / Line Out

Drawing



Images



Ordering Information							
Model	CPU	RAM/Flash	I/O	Interfaces	Power Supply	Brightness	Touch/Cover
BA905HB-NN-R28-2NDA-T	ARM 4Q	2G / 8G	IGN	Ethernet / USB	9-36VDC	700 nits	None
BA905HB-G20-R28-2NDC-9	ARM 4Q	2G / 8G	IGN	Ethernet / USB	43-160VDC	700 nits	2mm Glass
BA905HB-G20-R28-2URC-9	ARM 4Q	2G / 8G	IGN	Ethernet / USB	43-160VDC	700 nits	2mm Glass + Anti-reflective
Custom Options							

12.3 Inches Touch Monitor

BA1230

- 12.3 inches monitor.
- High brightness and wide viewing angle.
- Resistive 4W/5W and Projected Capacitive touch panel.
- Fully configurable manual and automatic dimmer.
- Slim frame and reduced depth.
- Wide power supply options
- -40°C to 85°C operating temperature.
- LED backlight lifetime min. 50.000h.



General Specification	
Size	12.3 inches
Resolution / Aspect	1920 x 720px
Inputs	DVI/VGA/HDMI
Audio	Optional Stereo Audio
Touch	Resistive 4 or 5 Wires / Projected Capacitive Multi-touch
Power Supply	9-36VDC, 72VDC, 110VDC
Power Consumption	22W / 30W
MTBF / Lifespan	Controller and LCD: 100.000h Backlight: min. 50.000h
Warranty	24 months
Certification	CE*, e-mark*, EN50155*
Mounting Type	Panel Type, Custom Option, VESA75 optional
Mechanical and Environment	
Dimension	See Drawing
Weight	1.5Kg
Enclosure	Steel and Aluminum
Operation Temp.	-40°C to 85°C
Storage Temp.	-40°C to 90°C
Vibrations / Shock	1G 2-500Hz / 10G 11ms
Optical Specification	
Brightness	1000 nits +/-15%, LED backlight
Contrast ratio	1000:1
Viewing Angle	178° H, 178° V
Response Time	16 ms
Optical Finish	Anti-glare/Anti-reflective
Enhancements	Sunlight Readable and Transflective Enhancements Available

* Under request

Inelmatic Electronics Service Centers

Europe: Valladolid (Spain)

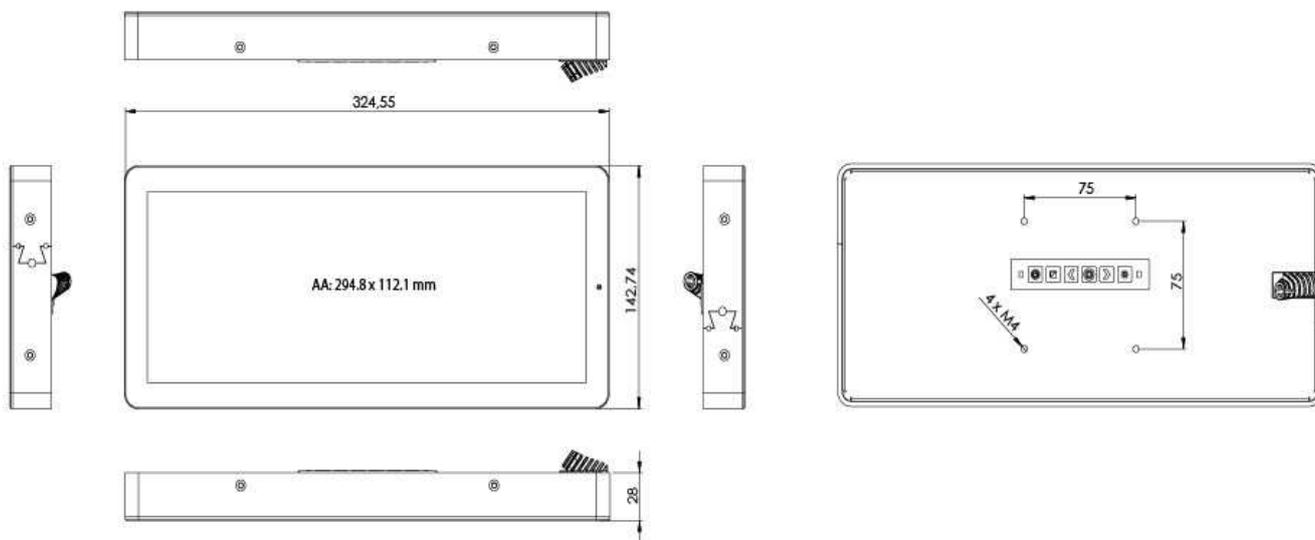
Asia: Shanghai (China),

Americas: Florida (USA), Ontario (Canada),

Australia: Perth & Melbourne (Australia)

12.3 Inches Touch Monitor

BA1230



Ordering Information						
Model	Size	Resolution	Brightness	Readability	Touch/Cover	Input
BA1230SHB-G20-DNN-DAR2-1	12.3"	1920x720	1000nits	Sunlight	2m Glass	DVI
Accessories						
Cable All in One 2.5m						
Cable All in One 4.5m						

Inelmatic Electronics Service Centers
 Europe: Valladolid (Spain)
 Asia: Shanghai (China),
 Americas: Florida (USA), Ontario (Canada),
 Australia: Perth & Melbourne (Australia)

15.6 Inches Touch Monitor

BA1560



- 15.6 inches monitor.
- High brightness and wide viewing angle.
- Resistive 4W/5W and Projected Capacitive touch panel.
- Fully configurable manual and automatic dimmer.
- Slim frame and reduced depth.
- Wide power supply options
- -40°C to 85°C operating temperature.
- LED backlight lifetime min. 50.000h.

General Specification	
Size	15.6 inches
Resolution / Aspect	1920 x 1080px
Inputs	DVI/VGA/HDMI
Audio	Optional Stereo Audio
Touch	Resistive 4 or 5 Wires / Projected Capacitive Multi-touch
Power Supply	9-36VDC, 72VDC, 110VDC
Power Consumption	22W / 30W
MTBF / Lifespan	Controller and LCD: 100.000h Backlight: min. 50.000h
Warranty	24 months
Certification	CE*, e-mark*, EN50155*
Mounting Type	Panel Type, Custom Option, VESA75 optional
Mechanical and Environment	
Dimension	See Drawing
Weight	2Kg
Enclosure	Steel and Aluminum
Operation Temp.	-40°C to 85°C
Storage Temp.	-40°C to 90°C
Vibrations / Shock	1G 2-500Hz / 10G 11ms
Optical Specification	
Brightness	450 / 800 / 1500 nits, LED backlight
Contrast ratio	1000:1
Viewing Angle	178° H, 178° V
Response Time	16 ms
Optical Finish	Anti-glare/Anti-reflective
Enhancements	Sunlight Readable and Transflective Enhancements Available

* Under request

Inelmatic Electronics Service Centers

Europe: Valladolid (Spain)

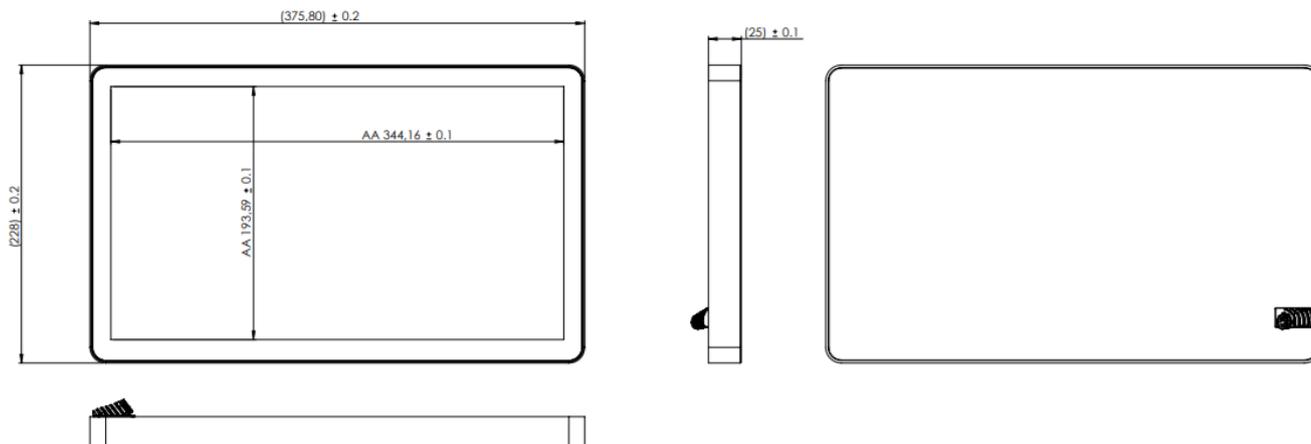
Asia: Shanghai (China),

Americas: Florida (USA), Ontario (Canada),

Australia: Perth & Melbourne (Australia)

15.6 Inches Touch Monitor

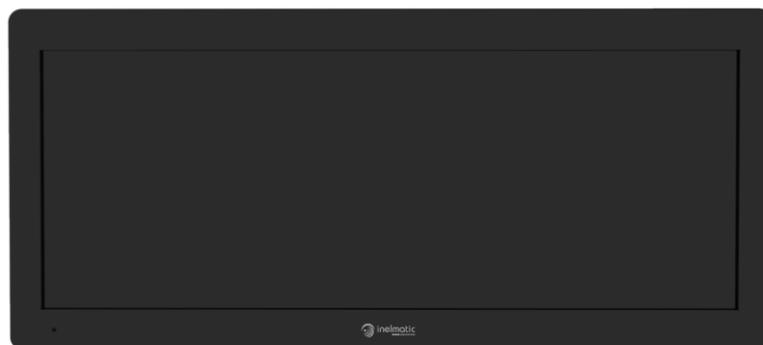
BA1560



Ordering Information						
Model	Size	Resolution	Brightness	Readability	Touch/Cover	Input
BA1560-G20-DNN-DAR2-1	15.6"	1920x1080	450nits	Daylight	2m Glass	DVI
BA1560HB-G20-DNN-DAR2-1	15.6"	1920x1080	800nits	Sunlight	2m Glass	DVI
BA1560SHB-G20-DNN-DAR2-1	15.6"	1920x1080	150nits	Sunlight	2m Glass	DVI
Accessories						
Cable All in One 2.5m						
Cable All in One 4.5m						

Inelmatic Electronics Service Centers
 Europe: Valladolid (Spain)
 Asia: Shanghai (China),
 Americas: Florida (USA), Ontario (Canada),
 Australia: Perth & Melbourne (Australia)

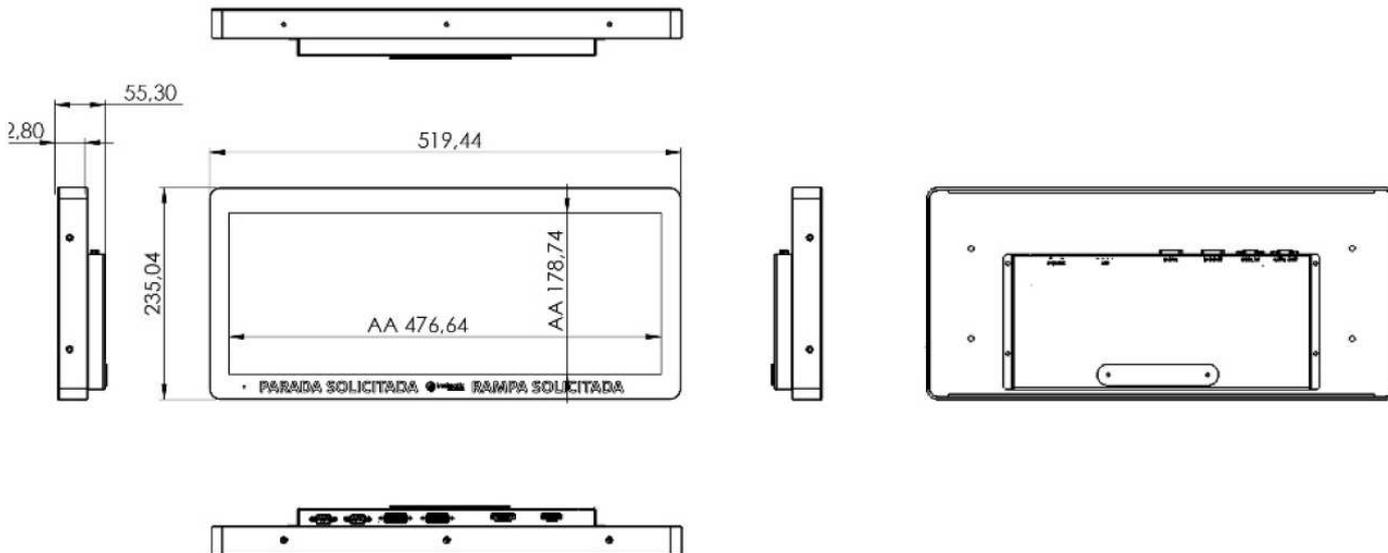
- 20" very wide aspect.
- Wide viewing angle and high brightness.
- Optional protection glass or touch panel.
- Fully configurable manual and automatic dimmer.
- Aluminum frame.
- Wide power supply options available.
- Extended operating temperature range.
- LED backlight lifetime min. 50.000h.



General Specification	
Size	20 inches
Resolution / Aspect	1920x720px / 16:9
Display Area	476.66 x 178.74 mm
Inputs	DVI In + Daisy Chain Output , HDMI / VGA Optional
Audio	Optional Audio Output Stereo 2x1.5W / 2x5W
Cover Lens / Touch	CS Glass / Safety Glass / Projected Capacitive / None
Power Supply	12VDC / 24VDC / 9-36VDC / 43-160VDC / 14-160VDC
Power Consumption	28W average, 35W max. Power-On in-rush current: 10A
MTBF / Lifespan	Controller and LCD: >80,000h Backlight: min. 50.000h @500nits
Warranty	24 months
Certification	EN50155* EN45545*
Mounting Type	Open Frame
IP	IP0 (Open Frame)
Mechanical and Environment	
Dimension	see drawing for details
Weight	5Kg
Enclosure	Aluminum, Powder Paint
Operation Temp.	-25°C to 60°C
Storage Temp.	-30°C to 80°C
Vibrations / Shock	1G 2-500Hz / 10G 11ms
Optical Specification	
Brightness	350 / 500 / 1000 / 1500 nits (typ), LED backlight.
Dimmer	Fully configurable Dimmer with Internal Sensor (optional) and External Sensor (optional)
Contrast Ratio	Min 1000:1
Viewing Angle	178° H, 178° V
Response Time	16 ms
Optical Finish (Optional)	Anti-glare / Anti-reflective / None
Enhancements (Optional)	Sunlight Readable and Transflective Enhancements Available

*Upon request

Drawing



Ordering Information

Model	Size	Resolution	Brightness	Readability	Touch/Lens	Input	Power Supply
BA2001HB-NN-DNNY-ND1-B	20"	1920x720px	500nits	None	None	DVI	16-36V
BA2001HB-P20-DNNY-NN1-B	20"	1920x720px	500nits	None	6mm	DVI	16-36V

Accessories

Custom Glass	Custom Glass options available	



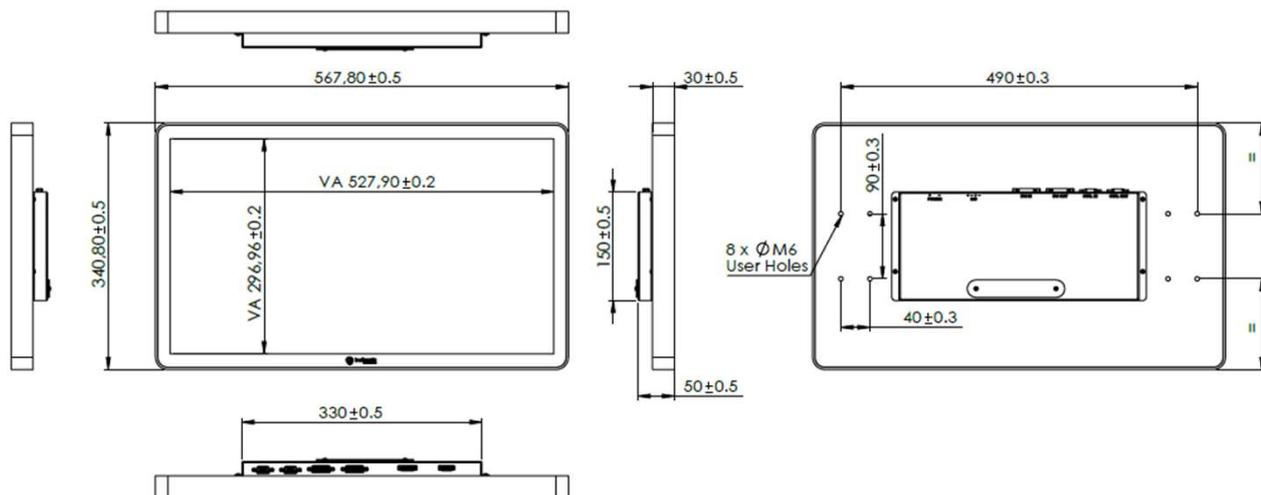
- 23.8 inches FHD
- Wide viewing angle and high brightness.
- Optional protection glass or touch panel.
- Fully configurable manual and automatic dimmer.
- Metal frame.
- Wide power supply options available.
- LED backlight lifetime min. 50.000h.

General Specification	
Size	23.8 inches
Resolution / Aspect	1920 x 1080 px
Display Area	527.04 × 296.46 mm
Inputs	DVI, Optional VGA , HDMI
Audio	Optional Audio Output Stereo 2x1.5W / 2x5W
Cover Lens / Touch	CS Glass / PMMA / Projected Capacitive Touch
Power Supply	11-36VDC / 43-160VDC / 14-160VDC
Power Consumption	30W max. Power-On in-rush current: 10A
MTBF / Lifespan	Controller and LCD: >80,000h Backlight: min. 50.000h
Warranty	12/24 months
Certification	Optional
Mounting Type	Open Frame / Panel Mount
IP	IP65 front, IP40 rear
Mechanical and Environment	
Dimension	(see drawing for details)
Weight	4Kg
Enclosure	Aluminum, Powder Paint
Operation Temp.	-10°C to 55°C
Storage Temp.	-20°C to 60°C
Vibrations / Shock	1G 2-500Hz / 10G 11ms
Optical Specification	
Brightness	550nits, LED backlight.
Dimmer	Fully configurable Dimmer with Internal Sensor (optional) and External Sensor (optional)
Contrast Ratio	Min 1000:1
Viewing Angle	178° H, 178° V
Response Time	10 ms
Optical Finish (optional)	Anti-glare / Anti-reflective / None
Enhancements (Optional)	Sunlight Readable and Transflective Enhancements Available

23.8 Inches Embedded Display

BA2380

Drawing



Images

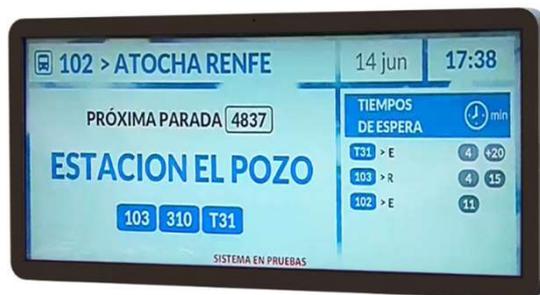


Ordering Information

Model	Size	Resolution	Brightness	Enhanced	Touch/Cover	Input	Power
BA2380HB-NN-DNNY-ND1-1	23.8"	1920x1080	550 nits	none	none	DVI	11-36Vdc
BA2380HB-P20-DNNY-NA1-1	23.8"	1920x1080	550 nits	AR	PMMA 2mm	DVI	11-36Vdc
BA2380HB-G50-DNNY-NN1-1	23.8"	1920x1080	550 nits	none	Glass 5mm	DVI	11-36Vdc
BA2380HB-G50-DNNY-ND1-1	23.8"	1920x1080	550 nits	AG	Glass 5mm	DVI	11-36Vdc

Custom Options

- Very Wide Aspect 29.3 inches native TFT.
- Daisy chain.
- Wide viewing angle and high brightness.
- Integrated Intel Atom or ARM Quad Core CPU.
- Optional protection glass or touch panel.
- Fully configurable manual and automatic dimmer.
- Metal frame.
- Wide power supply options available.
- Extended operating temperature range.
- LED backlight lifetime min. 50.000h.

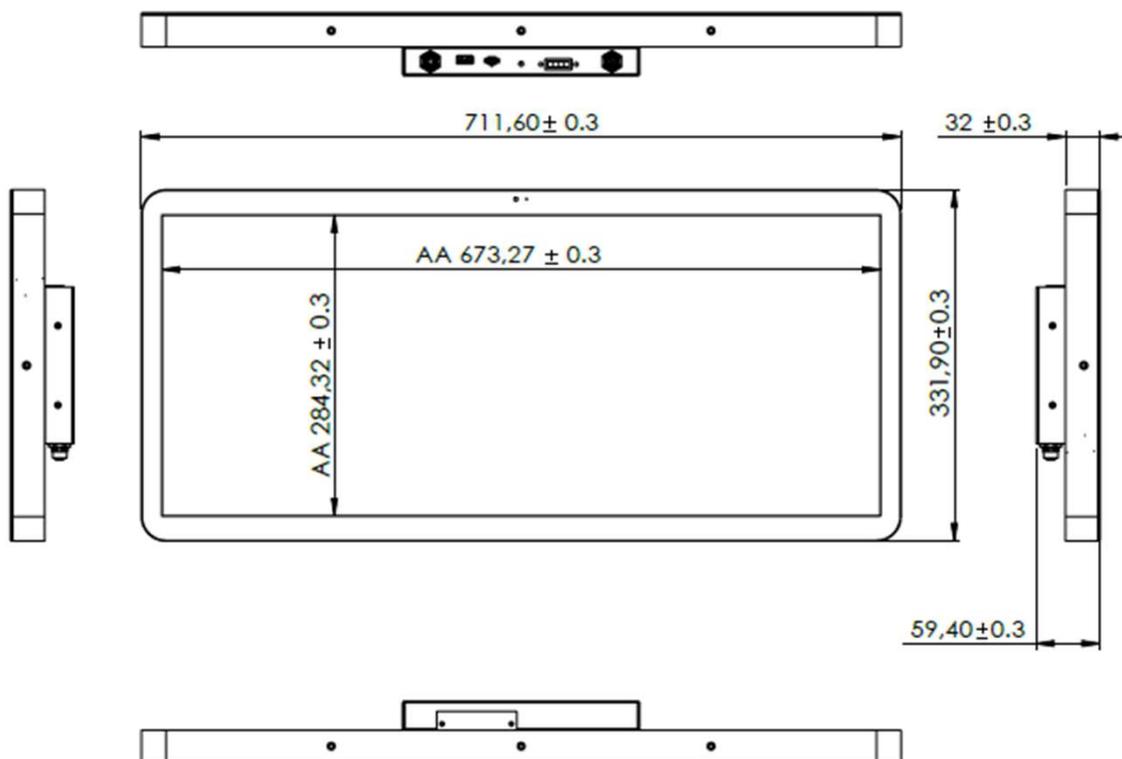


General Specification	
Size	29.0 inches
Resolution / Aspect	2560x1080 / 16:2.4
Display Area	663x282 mm
Inputs	Ethernet / USB / UART
Audio	Optional Audio Output Stereo 2x1.5W / 2x5W
Cover Lens / Touch	CS Glass / Safety Glass / Projected Capacitive / None
Power Supply	9-36VDC / 43-160VDC / 14-160VDC - M12 A Coded
Power Consumption	30W average, 45W max. Power-On in-rush current: 10A
MTBF / Lifespan	Controller and LCD: >80,000h Backlight: min. 50.000h @700nits , 70,000h @ 300 nits
Warranty	24 months
Certification	EN50155* EN45545*
Mounting Type	Open Frame / Panel Mount
IP	IP20, IP65 front optional
Mechanical and Environment	
Dimension	(see drawing for details)
Weight	6Kg
Enclosure	Aluminum, Powder Paint
Operation Temp.	-25°C to 55°C
Storage Temp.	-30°C to 80°C
Vibrations / Shock	1G 2-500Hz / 10G 11ms
Optical Specification	
Brightness	300 / 700 nits (typ), LED backlight.
Dimmer	Fully configurable Dimmer with Internal Sensor (optional) and External Sensor (optional)
Contrast Ratio	Min 1200:1
Viewing Angle	178° H, 178° V
Response Time	16 ms
Optical Finish (optional)	Anti-glare / Anti-reflective / None
Enhancements (Optional)	Sunlight Readable and Transfletive Enhancements Available

*Upon request

CPU Specification (ARM)	
Cores	Quad-core ARM Cortex-A17
Frequency	1.8GHz
DDR	Up to 4G DDR4
Graphics	Mali-T760 MP4 GPU
Storage	Internal 8 to 16G eMMC , external TF/SD
Watchdog	Configurable watchdog
CPU Specification (Intel)	
Cores	E3815 Single Core / E3825 Dual Core / E3845 Quad Core
Frequency	1.46Ghz / 1.33Ghz / 1.91Ghz
DDR	Up to 4G DDR4
Graphics	Intel Graphics
Storage	Internal 8 to 16G eMMC , external C-FAST / TF
Watchdog	Configurable watchdog
I/O	
Ethernet	1 x Base 10/100, Optional Gigabit, M12 Connector D Coded
Daisy Chan	DVI/HDMI or Ethernet
USB	USB 2.0 x 1 Type A
Ignition	Integrated digital input for IGN control
RS232/485	RS232 / RS485 Port (M12 Connector)
Digital I/O	8 Input or 4 in 4 Out (Optional)
Video	Optional DVI / HDMI Output
Audio	Optional Line In / Line Out

Drawing



Images



Ordering Information							
Model	CPU	RAM/Flash	I/O	Interfaces	Power Supply	Brightness	Touch/Cover
BA2902HB-NN-3288-208-0-000-2ND1-9	ARM 4Q	2G / 8G	IGN	Ethernet / USB	43-160VDC	700 nits	None
BA2902HB-P20-3288-208-0-000-2ND1-9	ARM 4Q	2G / 8G	IGN	Ethernet / USB	43-160VDC	700 nits	2mm Hardened PMMA
BA2902HB-P20-3288-208-0-000-2AR1-9	ARM 4Q	2G / 8G	IGN	Ethernet / USB	43-160VDC	700 nits	2mm Hardened PMMA
Custom Options							
F2900	Front frame with Glass / PMMA for waterproof applications						

29.3 Inches Wide Display

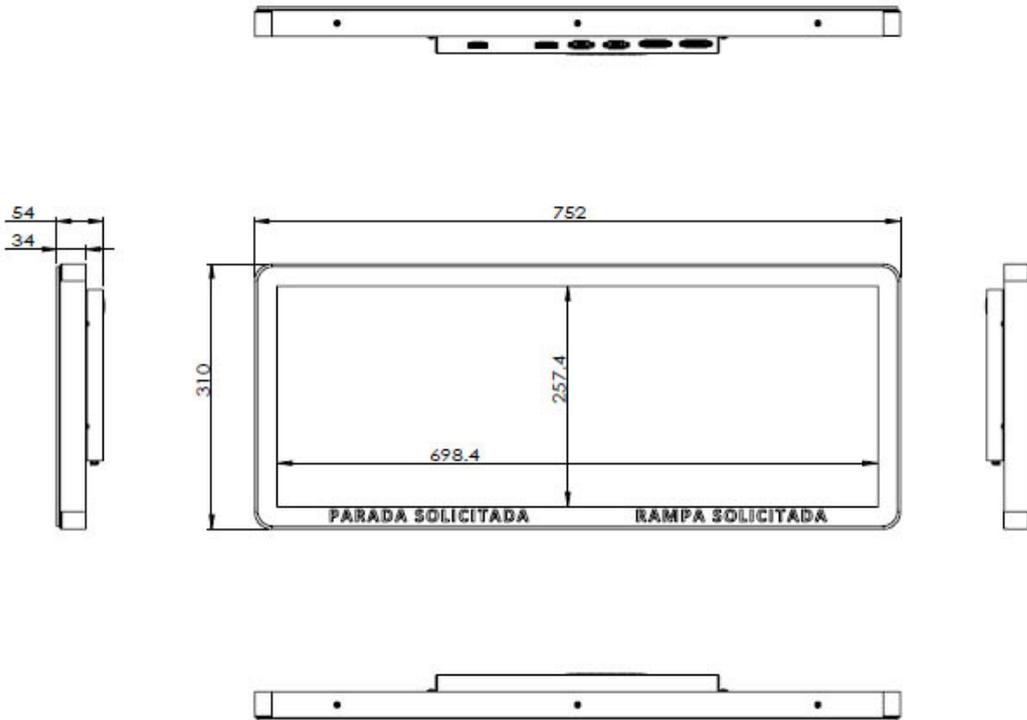
Industrial/Vehicular Series

- 29.3 inches ultrawide monitor.
- High brightness and wide viewing angle.
- Fully configurable manual and automatic dimmer.
- Slim frame and reduced depth.
- Lightweight aluminum chassis.
- Power supply car/truck ready 10-36VDC.
- Operating temperature -10°C to 50°C, -20°C to 60°C Peak
- Long LED backlight lifetime
- DVI Input.
- Diagnostic Port (RS232 / RS485)
- Two personalizable indicators (digital inputs 9-36VDC)



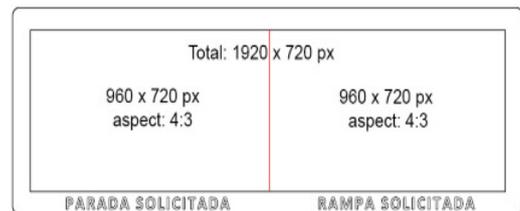
General Specification	
Size	29.3 inches
Resolution	1920x720px (+/-10px)
Inputs	DVI/VGA , Optional RJ45 waterproof connector
Outputs	DVI/VGA for Slave Display Optional
Audio	Optional Stereo Audio
Cover Lens	Tempered Glass or PMMA. Optional upto 7H hardness.
Power Supply	12/24VDC bus/truck suitable (10-36VDC ISO-16750)
Power Consumption	55W @ 900nits / 30W @500nits
MTBF / Lifespan	Controller: 200,000h Backlight: 70,000h @1000nits / 140,000h @500nits
Warranty	24 months
Certification	CE*/ e-mark*(Power Supply ISO16750-2 / ISO7637-2)
Mounting Type	Wall mount, Roof mount, Desk Mount
Mechanical and Environment	
Dimmension	See Drawing
Weight	7Kg
Enclosure	Aluminum, Passive Cooling Technology (custom colors available)
Operation Temp.	-10°C to 50°C Continuous, -20°C to 60°C Peak
Storage Temp.	-20°C to 60°C
Vibrations / Shock	2G 2-500Hz / 25G 6ms / EN60068-2-64 / EN60068-2-6 / EN60068-2-29
Ingress Protection	IP65 Front, IP42 Rear (all IP65 optional)
Optical Specification	
Brightness	900nits (+/-10-%), LED backlight at 100% Dimmer
Contrast ratio	4500:1
Viewing Angle	178° H, 178° V
Response Time	8 ms
Optical Finish	Glossy/Anti-glare/Anti-reflective Option
Enhancements	Sunlight Readable and Transfletive Enhancements Available
Outdoor readability	Meets MIL-STD-3009 (transfletive enhancement version)

* Pending homologation or optional



Diagnostics

- System and Backlight Temperature
- Backlight Luminance
- Power Consumption
- Ambient Light sensor



Ordering Information

Model	Size	Enhancement	Brightness	Contrast @20K Lux	Cover Lens	Power
BA2903HB-P20-DNN-YNRB-1	29.3"	Internal layers	900nits	1.75:1	2mm PMMA	9-36VDC

Accessories

180201	Indicators white color (Parada solicitada and rampa solicitada)
--------	---

Inelmatic Electronics Service Centers
 Europe: Valladolid (Spain)
 Asia: Shanghai (China),
 Americas: Florida (USA), Ontario (Canada),
 Australia: Perth & Melbourne (Australia)

- Very Wide Aspect 29 inches native TFT.
- Wide viewing angle and high brightness.
- Integrated Intel Atom or ARM Quad Core CPU.
- Optional protection glass or touch panel.
- Fully configurable manual and automatic dimmer.
- Metal frame.
- Wide power supply options available.
- Extended operating temperature range.
- LED backlight lifetime min. 50.000h.

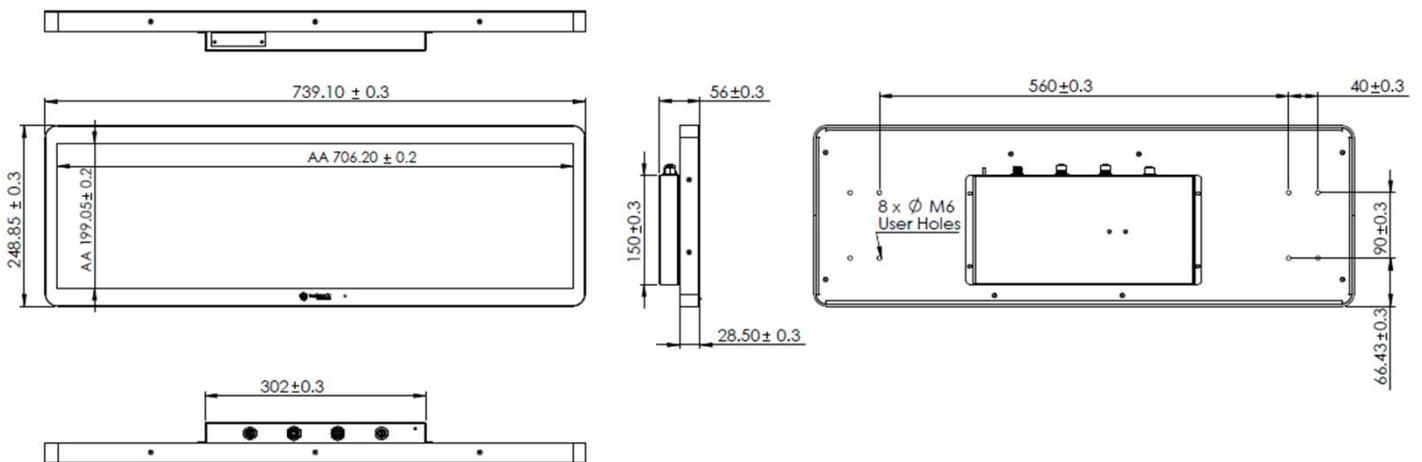


General Specification	
Size	29.0 inches
Resolution / Aspect	1920 x 540 px
Display Area	705 × 198 mm
Inputs	Ethernet / USB / UART
Audio	Optional Audio Output Stereo 2x1.5W / 2x5W
Cover Lens / Touch	CS Glass / PMMA / Projected Capacitive Touch
Power Supply	9-36VDC / 43-160VDC / 14-160VDC - M12 A Coded
Power Consumption	30W average, 50W max. Power-On in-rush current: 10A
MTBF / Lifespan	Controller and LCD: >80,000h Backlight: min. 50.000h @700nits , 70,000h @ 300 nits
Warranty	24 months
Certification	EN50155* EN45545*
Mounting Type	Open Frame / Panel Mount
IP	IP65 front, IP40 rear. Optional full IP65
Mechanical and Environment	
Dimension	(see drawing for details)
Weight	6.5Kg
Enclosure	Aluminum, Powder Paint
Operation Temp.	-10°C to 55°C
Storage Temp.	-20°C to 70°C
Vibrations / Shock	1G 2-500Hz / 10G 11ms
Optical Specification	
Brightness	300 / 700 nits (typ), LED backlight.
Dimmer	Fully configurable Dimmer with Internal Sensor (optional) and External Sensor (optional)
Contrast Ratio	Min 1200:1
Viewing Angle	178° H, 178° V
Response Time	15 ms
Optical Finish (optional)	Anti-glare / Anti-reflective / None
Enhancements (Optional)	Sunlight Readable and Transflective Enhancements Available

*Upon request

CPU Specification (ARM)	
Cores	Quad-core ARM Cortex-A17
Frequency	1.8GHz
DDR	Up to 4G DDR4
Graphics	Mali-T760 MP4 GPU
Storage	Internal 8 to 16G eMMC , external TF/SD
Watchdog	Configurable watchdog
CPU Specification (Intel)	
Cores	E3815 Single Core / E3825 Dual Core / E3845 Quad Core
Frequency	1.46Ghz / 1.33Ghz / 1.91Ghz
DDR	Up to 4G DDR4
Graphics	Intel Graphics
Storage	Internal 8 to 16G eMMC , external C-FAST / TF
Watchdog	Configurable watchdog
I/O	
Ethernet	1 x Base 10/100, Optional Gigabit, M12 Connector D Coded
Daisy Chan	Ethernet
USB	USB 2.0 (M12 connector)
Ignition	Integrated digital input for IGN control
RS232/485	Optional RS232 / RS485 Port (M12 Connector)
Digital I/O	8 Input or 4 in 4 Out (Optional)
Video	Optional DVI / HDMI Output
Audio	Optional Line In / Line Out

Drawing



Images



Ordering Information							
Model	CPU	RAM/Flash	I/O	Interfaces	Power Supply	Brightness	Touch/Cover
BA2905HB-NN-3288-208-0-000-2ND1-9	ARM 4Q	2G / 8G	IGN	Ethernet / USB	43-160VDC	700 nits	None
BA2905HB-G40-3288-208-0-000-2ND1-9	ARM 4Q	2G / 8G	IGN	Ethernet / USB	43-160VDC	700 nits	4mm Tempered
BA2905HB-G40-3288-208-0-000-2AR1-9	ARM 4Q	2G / 8G	IGN	Ethernet / USB	43-160VDC	700 nits	4mm Tempered + Anti-reflective
Custom Options							
F2905	Front frame with Glass / PMMA for waterproof applications						

- 32 inches native TFT.
- Wide viewing angle and high brightness.
- Optional protection glass or touch panel.
- Fully configurable manual and automatic dimmer.
- Metal frame.
- Wide power supply options available.
- LED backlight lifetime min. 50.000h.

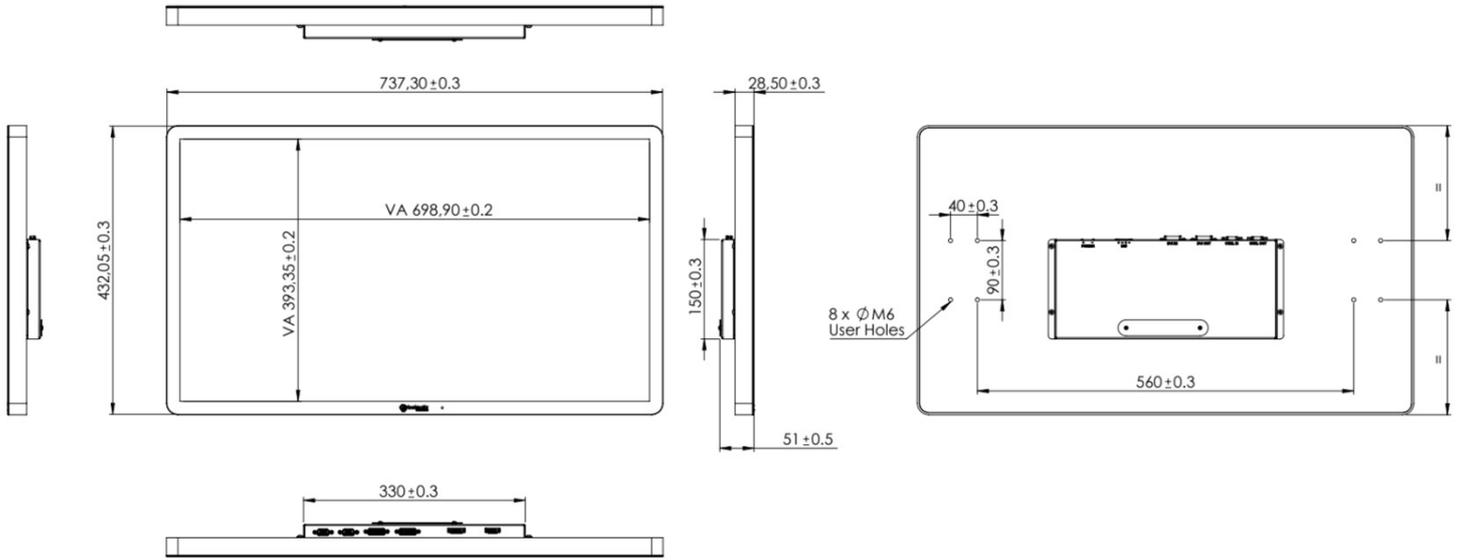


General Specification	
Size	32.0 inches
Resolution / Aspect	1920 x 1080 px
Display Area	698.4 x 392.8mm
Inputs	DVI / HDMI
Audio	Optional Audio Output Stereo 2x1.5W / 2x5W
Cover Lens / Touch	CS Glass / PMMA / Projected Capacitive Touch
Power Supply	11-36VDC / 43-160VDC / 14-160VDC - M12 A Coded
Power Consumption	50W max. Power-On in-rush current: 10A
MTBF / Lifespan	Controller and LCD: >80,000h Backlight: min. 50.000h
Warranty	24 months
Certification	Optional
Mounting Type	Open Frame / Panel Mount
IP	IP65 front, IP40 rear
Mechanical and Environment	
Dimension	(see drawing for details)
Weight	8Kg
Enclosure	Aluminum, Powder Paint
Operation Temp.	-10°C to 55°C
Storage Temp.	-20°C to 60°C
Vibrations / Shock	1G 2-500Hz / 10G 11ms
Optical Specification	
Brightness	400 nits, LED backlight.
Dimmer	Fully configurable Dimmer with Internal Sensor (optional) and External Sensor (optional)
Contrast Ratio	Min 1200:1
Viewing Angle	178° H, 178° V
Response Time	10 ms
Optical Finish (optional)	Anti-glare / Anti-reflective / None
Enhancements (Optional)	Sunlight Readable and Transflective Enhancements Available

32 Inches Embedded Display

BA3201

Drawing



Images



Ordering Information

Model	Size	Resolution	Brightness	Enhanced	Touch/Cover	Input	Power
BA3201HB-NN-DNNY-ND1-1	32"	1920x1080	400 nits	none	none	DVI	11-36Vdc
BA3201HB-P20-DNNY-NA1-1	32"	1920x1080	400 nits	AR	PMMA 2mm	DVI	11-36Vdc
BA3201HB-G50-DNNY-NN1-1	32"	1920x1080	400 nits	none	Glass 5mm	DVI	11-36Vdc
BA3201HB-G50-DNNY-ND1-1	32"	1920x1080	400 nits	AG	Glass 5mm	DVI	11-36Vdc

Custom Options

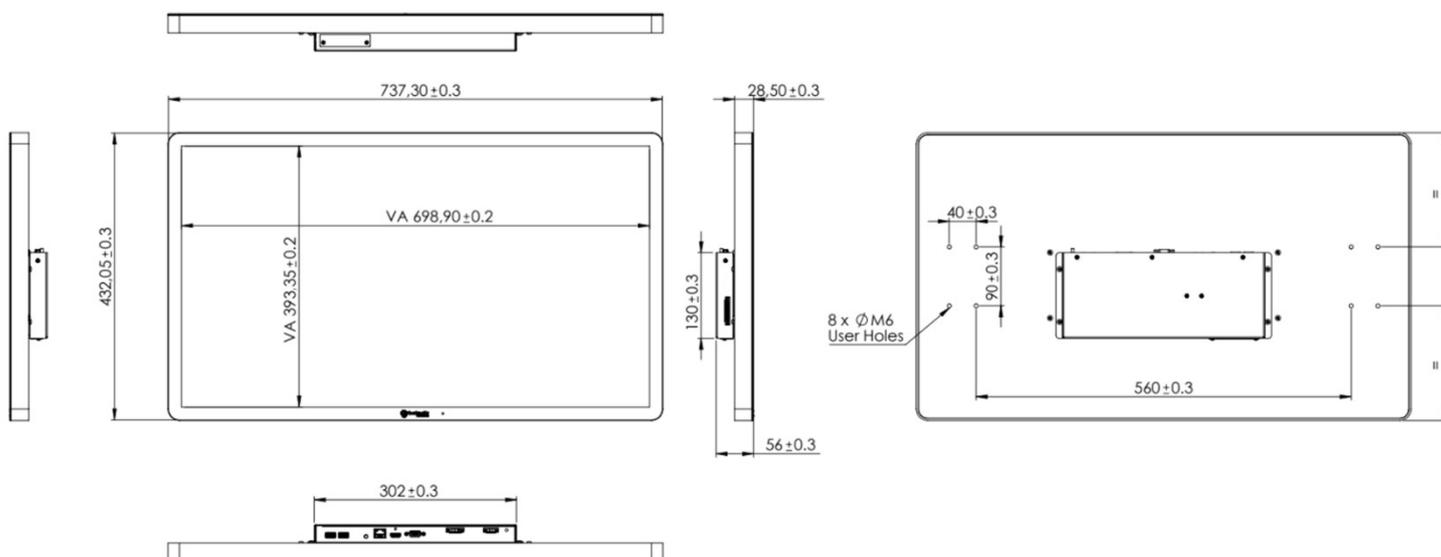


- 32 inches native TFT.
- Wide viewing angle and high brightness.
- Integrated Intel Atom or ARM Quad Core CPU.
- Optional protection glass or touch panel.
- Fully configurable manual and automatic dimmer.
- Metal frame.
- Wide power supply options available.
- LED backlight lifetime min. 50.000h.

General Specification	
Size	32.0 inches
Resolution / Aspect	1920 x 1080 px
Display Area	698.4 x 392.8mm
Inputs	Ethernet / USB / UART
Audio	Optional Audio Output Stereo 2x1.5W / 2x5W
Cover Lens / Touch	CS Glass / PMMA / Projected Capacitive Touch
Power Supply	11-36VDC / 43-160VDC / 14-160VDC
Power Consumption	45W average, 60W max. Power-On in-rush current: 10A
MTBF / Lifespan	Controller and LCD: >80,000h Backlight: min. 30.000h
Warranty	24 months
Certification	Optional
Mounting Type	Open Frame / Panel Mount
IP	IP65 front, IP40 rear. Optional full IP65
Mechanical and Environment	
Dimension	(see drawing for details)
Weight	8Kg
Enclosure	Aluminum, Powder Paint
Operation Temp.	-10°C to 55°C
Storage Temp.	-20°C to 60°C
Vibrations / Shock	1G 2-500Hz / 10G 11ms
Optical Specification	
Brightness	400 nits, LED backlight.
Dimmer	Fully configurable Dimmer with Internal Sensor (optional) and External Sensor (optional)
Contrast Ratio	Min 1200:1
Viewing Angle	178° H, 178° V
Response Time	10 ms
Optical Finish (optional)	Anti-glare / Anti-reflective / None
Enhancements (Optional)	Sunlight Readable and Transflective Enhancements Available

CPU Specification (ARM)	
Cores	Quad-core ARM Cortex-A17
Frequency	1.8GHz
DDR	Up to 4G DDR4
Graphics	Mali-T760 MP4 GPU
Storage	Internal 8 to 16G eMMC , external TF/SD
Watchdog	Configurable watchdog
CPU Specification (Intel)	
Cores	E3815 Single Core / E3825 Dual Core / E3845 Quad Core
Frequency	1.46Ghz / 1.33Ghz / 1.91Ghz
DDR	Up to 4G DDR4
Graphics	Intel Graphics
Storage	Internal 8 to 16G eMMC , external C-FAST / TF
Watchdog	Configurable watchdog
I/O	
Ethernet	1 x Base 10/100, Optional Gigabit
Daisy Chan	Ethernet
USB	USB 2.0
Ignition	Integrated digital input for IGN control
RS232/485	Optional RS232 / RS485 Port
Digital I/O	8 Input or 4 in 4 Out (Optional)
Video	Optional DVI / HDMI Output
Audio	Optional Line In / Line Out

Drawing



Images



Ordering Information							
Model	CPU	RAM/Flash	I/O	Interfaces	Power Supply	Brightness	Touch/Cover
BA3205HB-NN-R28-YND0-1	ARM 4Q	2G / 8G	IGN	Ethernet / USB	11-36VDC	400 nits	None
BA3205HB-P20-R28-YUSC-1	ARM 4Q	2G / 8G	IGN	Ethernet / USB	11-36VDC	400 nits	PMMA 2mm
Custom Options							