

BBK



BBK | Office Industrial Integrated Workstation

DYNICS BBK is a slim industrial grade display configured as either a monitor only or integrated with Braswell/Skylake-U PC (BBK), with a slim form factor and full HD display. The BBK is a great replacement for consumer grade monitors in an industrial environment.

- 100~240VAC / 24VDC
- 240GB – 2TB SATA / 1TB HDD
- VESA Mounting / IP20 Rating
- Optional Desktop Stand

DISPLAY SPECIFICATIONS

| SIZE | 15.6" | 18.5" | 19" | 21.5" | 24" |
|---------------------|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| RESOLUTION | FHD 1920 x 1080 | FHD 1920 x 1080 | SXGA 1280 x 1024 | FHD 1920 x 1080 | FHD 1920 x 1080 |
| VIEW ANGLE | H: -80°/+80°, V: -80°/+80° | H: -85°/+85°, V: -85°/+85° | H: -85°/+85°, V: -80°/+80° | H: -89°/+89°, V: -89°/+89° | H: -89°/+89°, V: -89°/+89° |
| CONTRAST | 800:1 | 1500:1 | 1000:1 | 5000:1 | 3000:1 |
| BRIGHTNESS | 400 nits | 400 nits | 350 nits | 300 nits | 300 nits |
| ASPECT RATIO | 16:9 | 16:9 | 5:4 | 16:9 | 16:9 |
| LENS | 5-Wire Analog Resistive (Touch Screen) / Protective Polycarbonate Lens (Non-Touch) | | | | |
| LCD LIFE | 50,000 Hour Backlight Half-Life | | | | |
| ENCLOSURE | NEMA 4 Powder Coat Finish (Black) | | | | |

PC SPECIFICATIONS

| | Braswell | Skylake-U 6th Gen Intel® |
|--------------------------|--|--|
| COMPUTER I/O | | |
| 1Gb Ethernet Ports | 2x | 2x |
| USB 3.0 Ports | 4x | 4x |
| VGA Ports | - | - |
| DVI-D Port | - | 1x |
| DisplayPorts | 1x | 1x |
| HDMI Ports | 1x | - |
| CPU | CPU Braswell N3160 | Intel® Core™ i5 6300U / i7 6600U |
| CPU SPEED | 1.6GHz Base, 2.24GHz Turbo (4 Cores, 4 Threads) | i5 – 2.4GHz Base, 3.0GHz Turbo (2 Cores, 4 Threads) i7 – 2.6GHz Base, 3.4GHz Turbo (2 Cores, 4 Threads) |
| MEMORY | Up to 8GB DDR3 | Up to 16GB DDR4 |
| STORAGE | 240GB – 2TB SATA SSD / 1TB HDD (RAID Option Available) | |
| OPERATING SYSTEM | -Windows® 7 Professional (64-bit) - Windows® Embedded Standard 7 (64-bit) -Windows® 10 Enterprise IoT LTSC 2019 (64-bit) -Windows® 10 Enterprise IoT LTSC 2016 (64-bit) -Linux Ubuntu | |
| POWER SUPPLY | 100~240VAC / 24VDC Power Entry | |
| TEMPERATURE | Operating: 0°-50°C 32°-122°F Non-Operating: -25°-60°C -13°-140°F | |
| RELATIVE HUMIDITY | Non-Condensing: 20% - 80% | |
| SHOCK RESISTANCE | Operating: 10G Non-Operating: 15G | |
| VIBRATION | Operating: 1.0G from 57~2000Hz Non-Operating: 2.5G from 57~2000Hz | |
| INCLUDED | 1x 6 ft. Power Cable | |
| COMPLIANCE | European Union Directive 2011/65/EU (RoHS) | |
| WARRANTY | 24-Month limited warranty. Extended warranty available, contact DYNICS for more details. | |



BBK



WITH STAND



DIMENSIONS, WEIGHT AND POWER CONSUMPTION

| | 15.6" | 18.5" | 19" | 21.5" | 24" |
|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| HEIGHT | 9.6" (245.2mm) | 11.3" (289.2mm) | 14.3" (363.8mm) | 12.9" (329.3mm) | 14.4" (366.4mm) |
| WIDTH | 15.7" (399.2mm) | 18.4" (469.3mm) | 17.7" (449.8mm) | 21.1" (536.2mm) | 23.5" (598.6mm) |
| DEPTH | 2.6" (66.4mm) | 2.6" (66.2mm) | 2.6" (68.6mm) | 2.5" (65.6mm) | 2.6" (66.0mm) |
| WEIGHT | 9 lbs.* | 13.2 lbs.* | 12 lbs.* | 13.9 lbs.* | 18.6 lbs.* |

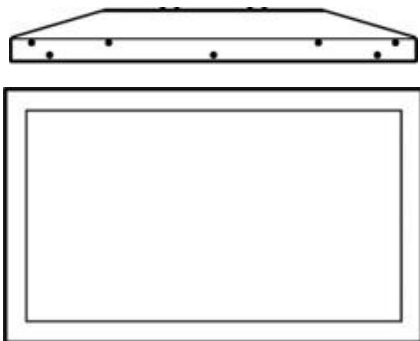
Power Consumption

| | 15.6" | 18.5" | 19" | 21.5" | 24" |
|------------------|------------|------------|------------|------------|------------|
| Braswell | 35 Watts** | 46 Watts** | 48 Watts** | 54 Watts** | 73 Watts** |
| Skylake-U | 58 Watts** | 70 Watts** | 71 Watts** | 77 Watts** | 96 Watts** |

* Weights are approximate, contact DYNICS for details.

** Power consumption is based on maximum ratings, actual ratings vary significantly based on components used.

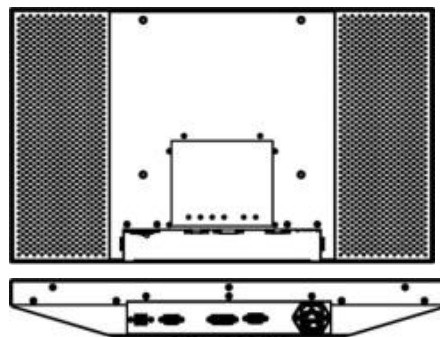
MECHANICAL DRAWINGS FRONT AND TOP VIEW



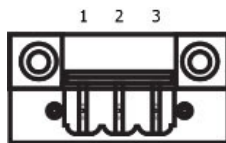
POWER ENTRY 100~240VAC



BACK AND BOTTOM VIEW

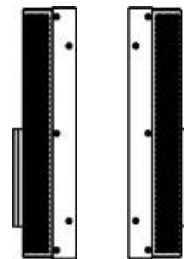


POWER ENTRY 24VDC



PIN 1: V+
PIN 2: \perp (Chassis GND)
PIN 3: V-

SIDEVIEW



All measurements are in inches and pounds, , unless noted. Pictures and drawings are not to scale. Estimated weight may change depending on options. DYNICS Reserves the right to change, modify, upgrade, or discontinue any part of this datasheet without any prior notice



INDUSTRIAL INTEGRATED WORKSTATIONS