



# BBK

## Datasheet



### BBK | Office Display

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

### Key Features

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

### Display Specifications

| Size             | Resolution   | View Angle                 | Contrast | Brightness | Aspect Ratio |
|------------------|--|----------------------------|----------|------------|--------------|
| 15.6"            | FHD 1920 x 1080  | H: -80°/+80°, V: -80°/+80° | 800:1    | 600 nits   | 16:9         |
| 18.5"            | FHD 1920 x 1080  | H: -85°/+85°, V: -85°/+85° | 1500:1   | 400 nits   | 16:9         |
| 19"              | SXGA 1280 x 1024   | H: -85°/+85°, V: -80°/+80° | 1000:1   | 350 nits   | 5:4          |
| 21.5"            | FHD 1920 x 1080  | H: -89°/+89°, V: -89°/+89° | 5000:1   | 300 nits   | 16:9         |
| 24"              | FHD 1920 x 1080  | H: -89°/+89°, V: -89°/+89° | 3000:1   | 300 nits   | 16:9         |
| <b>Lens</b>      | 5-Wire Analog Resistive (Touch Screen) / Protective Polycarbonate Lens (Non-Touch) |                            |          |            |              |
| <b>LCD Life</b>  | 50,000 Hour Backlight Half-Life  |                            |          |            |              |
| <b>Enclosure</b> | Black Powder Coat Finish   |                            |          |            |              |

### PC Specifications

| Motherboard              | 3.5" Braswell  | Skylake-U 6 <sup>th</sup> Gen Intel®   | ProAV Monitor   |
|--------------------------|--|--|---|
| <b>I/O</b>               | 2x 1Gb Ethernet Ports<br>4x USB 3.0 Ports<br>1x DisplayPort<br>1x HDMI Port  | 2x 1Gb Ethernet Ports<br>4x USB 3.0 Ports<br>1x DisplayPort<br>1x DVI-D Port                                     | 1x USB 3.0 Port<br>1x DVI-D Port<br>1x VGA Port<br>1x Serial Port |
| <b>CPU</b>               | Braswell N3160   | Intel® Core™ i5 6300U / i7 6600U   | N/A   |
| <b>CPU Speed</b>         | 1.6GHz Base, 2.24GHz Turbo<br>(4 Cores, 4 Threads)   | i5 – 2.4GHz Base, 3.0GHz Turbo<br>(2 Cores, 4 Threads)<br>i7 – 2.6GHz Base, 3.4GHz Turbo<br>(2 Cores, 4 Threads) | N/A   |
| <b>Memory</b>            | Up to 8GB DDR3   | Up to 16GB DDR4  | N/A   |
| <b>Power Supply</b>      | 100~240VAC / 24VDC Power Entry   |  |   |
| <b>Storage</b>           | 240GB – 2TB SATA SDD / 1TB HDD   |  |   |
| <b>Operating System</b>  | - Windows® 7 Professional (64-bit) - Windows® Embedded Standard 7 (64-bit)<br>- Windows® Enterprise IoT LTSB 2016 (64-bit) |  |   |
| <b>Temperature</b>       | Operating: 0° - 50°C (32° - 122°F)<br>Non-Operating: -25° - 60°C (-13° - 140°F)  |  |   |
| <b>Relative Humidity</b> | Non-Condensing: 20% - 80%  |  |   |
| <b>Shock</b>             | Operating: 10G<br>Non-Operating: 15G   |  |   |
| <b>Vibration</b>         | Operating: 1.0G from 57~2000Hz<br>Non-Operating: 2.5G from 57~2000Hz   |  |   |
| <b>Included</b>          | 1x 6 ft. Power Cable   |  |   |
| <b>Compliance</b>        | European Union Directive 2011/65/EU (RoHS)   |  |   |
| <b>Warranty</b>          | 24-Month limited warranty. Extended warranty available, contact DYNICS for details.  |  |   |





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### Dimensions, Weight and Power Consumption

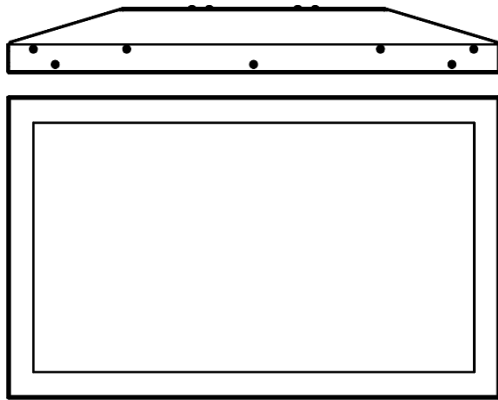
|   | 15"                  | 18.5"                | 19"                  | 22"                  | 24"                  |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|
| <b>Height</b>   | 9.655"<br>(245.2mm)  | 14.322"<br>(363.8mm) | 14.322"<br>(363.8mm) | 12.950"<br>(328.9mm) | 14.426"<br>(366.4mm) |
| <b>Width</b>  | 15.718"<br>(399.2mm) | 17.710"<br>(449.8mm) | 17.710"<br>(449.8mm) | 21.098"<br>(535.9mm) | 23.566"<br>(598.6mm) |
| <b>Depth</b> (Monitor Only)                           | 2.614"<br>(66.4mm)   | 2.699"<br>(68.6mm)   | 2.699"<br>(68.6mm)   | 2.759"<br>(70.1mm)   | 2.543"<br>(64.6mm)   |
| <b>Weight</b>   | 9 lbs.*              | 12 lbs.*             | 12 lbs.*             | 14 lbs.*             | 15 lbs.*             |
| <b>Power Consumption</b>                              |                      |                      |                      |                      |                      |
| <b>3.5" Braswell</b>                                  | TBD                  | TBD                  | TBD                  | TBD                  | TBD                  |
| <b>Skylake-U 6<sup>th</sup> Gen Intel<sup>®</sup></b> | TBD                  | TBD                  | TBD                  | TBD                  | TBD                  |
| <b>ProAV Monitor</b>                                  | TBD                  | TBD                  | TBD                  | 55 Watts**           | 80 Watts**           |

\*Weights are approximate, contact DYNICS for details.

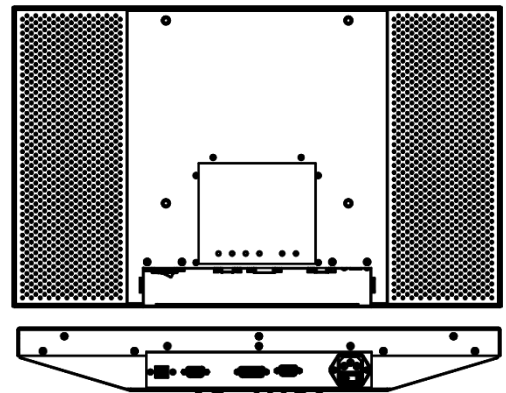
\*\*Power Consumption based on maximum ratings, actual ratings vary significantly based on components used.

### Mechanical Drawings

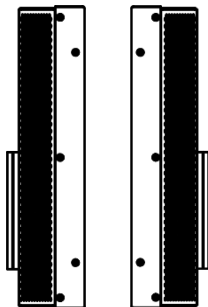
#### Front and Top View



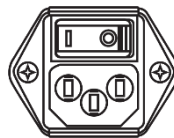
#### Back and Bottom View



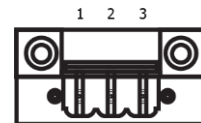
#### Side View



#### Power Entry 100~240VAC



#### Power Entry 24VDC



Pin 1: V+  
Pin 2: Chassis GND  
Pin 3: V-

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.

