



### Performance Characteristics

| Technology                | A770                                                                                                                                                                                                                        | A770 HC                                                                                                                                                                                                                     | L780                                                                                           | L780 HC                                                                                        | L680                                                                                           | F790                                                                                           | F780                                                                                           | F780 HC                                                                                        | F680                                                                                           | F560                                                                                           |                                                                  |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| <b>Technology</b>         | Area Imaging                                                                                                                                                                                                                | Area Imaging                                                                                                                                                                                                                | Linear Imaging                                                                                 | Linear Imaging                                                                                 | Linear Imaging                                                                                 | Linear Imaging                                                                                 | Linear Imaging                                                                                 | Linear Imaging                                                                                 | Linear Imaging                                                                                 | Linear Imaging                                                                                 |                                                                  |
| <b>Print Contrast</b>     | 20% minimum reflective difference                                                                                                                                                                                           | 20% minimum reflective difference                                                                                                                                                                                           | 20% minimum reflective difference                                                              | 20% minimum reflective difference                                                              | 20% minimum reflective difference                                                              | 10% minimum reflective difference                                                              | 15% minimum reflective difference                                                              | 15% minimum reflective difference                                                              | 15% minimum reflective difference                                                              | 20% minimum reflective difference                                                              |                                                                  |
| <b>Minimum Resolution</b> | <b>SR Model</b><br>4 mil Code 39<br>7 mil DM<br><b>HD Model</b><br>3 mil Code 39<br>5 mil DM                                                                                                                                | <b>SR Model</b><br>4 mil Code 39<br>7 mil DM<br><b>HD Model</b><br>3 mil Code 39<br>5 mil DM                                                                                                                                | Typical 3 mil (Code 39, PCS 0.9)                                                               | Typical 3 mil (Code 39, PCS 0.9)                                                               | Typical 3 mil (Code 39, PCS 0.9)                                                               | Typical 3 mil (Code 39, PCS 0.9)                                                               | Typical 3 mil (Code 39, PCS 0.9)                                                               | Typical 3 mil (Code 39, PCS 0.9)                                                               | Typical 3 mil (Code 39, PCS 0.9)                                                               | Typical 3 mil (code 39, PCS 0.9)                                                               |                                                                  |
| <b>Working Distance</b>   | <b>SR Model</b><br>5 mil (0.13mm) C39<br>13 mil (0.33mm) UPC/EAN<br>10 mil (0.25mm) DM<br><b>HD Model</b><br>3 mil (0.07mm) C39<br>5 mil (0.13mm) C39<br>13 mil (0.33mm) UPC/EAN<br>5 mil (0.13mm) DM<br>10 mil (0.25mm) QR | <b>SR Model</b><br>5 mil (0.13mm) C39<br>13 mil (0.33mm) UPC/EAN<br>10 mil (0.25mm) DM<br><b>HD Model</b><br>3 mil (0.07mm) C39<br>5 mil (0.13mm) C39<br>13 mil (0.33mm) UPC/EAN<br>5 mil (0.13mm) DM<br>10 mil (0.25mm) QR | Up to 24 inches on 100% UPC/EAN symbols<br>Up to 34 inches on 20 mil Code 39                   | Up to 24 inches on 100% UPC/EAN symbols<br>Up to 34 inches on 20 mil Code 39                   | Up to 24 inches on 100% UPC/EAN symbols<br>Up to 34 inches on 20 mil Code 39                   | Up to 24 inches on 100% UPC/EAN symbols<br>Up to 34 inches on 20mil code 39                    | Up to 24 inches on 100% UPC/EAN symbols<br>Up to 34 inches on 20 mil Code 39                   | Up to 24 inches on 100% UPC/EAN symbols<br>Up to 34 inches on 20 mil Code 39                   | Up to 19 inches on 100% UPC/EAN symbols<br>Up to 27 inches on 20 mil Code 39                   | More than 13 inches on 100% UPC/EAN symbols<br>Up to 18 inches on 20-mil Code 39               |                                                                  |
| <b>Light Source</b>       | Aiming Pattern : 630nm LED<br>Illumination : 630nm LED                                                                                                                                                                      | Aiming Pattern : 630nm LED<br>Illumination : 630nm LED                                                                                                                                                                      | 630nm visible red LED with laser aiming                                                        | 630nm visible red LED with laser aiming                                                        | 630nm visible red LED with laser aiming                                                        | 630nm visible red LED                                                                          | 630nm visible red LED                                                                          | 630nm visible red LED                                                                          | 630nm visible red LED                                                                          | 630nm visible red LED                                                                          |                                                                  |
| <b>Operating Modes</b>    | Trigger, Toggle, Force, Level, Diagnostic, Alternative, Low power, Presentation, Multiple read                                                                                                                              | Trigger, Toggle, Force, Level, Diagnostic, Alternative, Low power, Presentation, Multiple read                                                                                                                              | Toggle, Trigger, Force, Level, Flash, Diagnostic Alternative, Low power, Presentation          | Toggle, Trigger, Force, Level, Flash, Diagnostic Alternative, Low power, Presentation          | Toggle, Trigger, Force, Level, Flash, Diagnostic Alternative, Low power, Presentation          | Toggle, Trigger, Force, Level, Flash, Diagnostic Alternative, Low power, Presentation          | Toggle, Trigger, Force, Level, Flash, Diagnostic Alternative, Low power, Presentation          | Toggle, Trigger, Force, Level, Flash, Diagnostic Alternative, Low power, Presentation          | Toggle, Trigger, Force, Level, Flash, Diagnostic Alternative, Low power, Presentation          | Toggle, Trigger, Force, Level, Flash, Diagnostic Alternative, Low power, Presentation          |                                                                  |
| <b>User Interfaces</b>    | PC/AT, PS/2 (DOS V) keyboard wedge<br>PC/AT, PS/2 (DOS V) keyboard direct link<br>TTL RS232 serial<br>USB HID (USB Keyboard)<br>USB COM port emulation                                                                      | PC/AT, PS/2 (DOS V) keyboard wedge<br>PC/AT, PS/2 (DOS V) keyboard direct link<br>TTL RS232 serial<br>USB HID (USB Keyboard)<br>USB COM port emulation                                                                      | 3 LEDs for power, good read and status indications<br>Programmable beeper<br>Optional vibrator | 3 LEDs for power, good read and status indications<br>Programmable beeper<br>Optional vibrator | 3 LEDs for power, good read and status indications<br>Programmable beeper<br>Optional vibrator | 3 LEDs for power, good read and status indications<br>Programmable beeper<br>Optional vibrator | 3 LEDs for power, good read and status indications<br>Programmable beeper<br>Optional vibrator | 3 LEDs for power, good read and status indications<br>Programmable beeper<br>Optional vibrator | 3 LEDs for power, good read and status indications<br>Programmable beeper<br>Optional vibrator | 3 LEDs for power, good read and status indications<br>Programmable beeper<br>Optional vibrator | Blue LED indications<br>Programmable beeper<br>Optional vibrator |

### Supported Symbolologies

|  |                                                                    |                                                                    |                                                                       |                                                                          |                                                                       |                                                                       |                                                                       |                                                                          |                                                                       |                                                                       |
|--|--------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
|  | 1D, Linear-stacked, PDF417, Micro PDF417, Codablock, Composite, 2D | 1D, Linear-stacked, PDF417, Micro PDF417, Codablock, Composite, 2D | L780 : 1D, Linear-stacked                                             | L780 HC : 1D, Linear-stacked                                             | L680 : 1D, Linear-stacked                                             | F790 : 1D, Linear-stacked                                             | F780 : 1D, Linear-stacked                                             | F780 HC : 1D, Linear-stacked                                             | F680 : 1D, Linear-stacked                                             | F560 : 1D, Linear-stacked                                             |
|  |                                                                    |                                                                    | L788 : 1D, Linear-stacked, PDF417, Micro PDF417, Codablock, Composite | L788 HC : 1D, Linear-stacked, PDF417, Micro PDF417, Codablock, Composite | L688 : 1D, Linear-stacked, PDF417, Micro PDF417, Codablock, Composite | F798 : 1D, Linear-stacked, PDF417, Micro PDF417, Codablock, Composite | F788 : 1D, Linear-stacked, PDF417, Micro PDF417, Codablock, Composite | F788 HC : 1D, Linear-stacked, PDF417, Micro PDF417, Codablock, Composite | F688 : 1D, Linear-stacked, PDF417, Micro PDF417, Codablock, Composite | F568 : 1D, Linear-stacked, PDF417, Micro PDF417, Codablock, Composite |

### User Environment

|                                     |                                                |                                                |                                                |                                                |                                                |                                                |                                                |                                                |                                                |                                                |
|-------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|
| <b>Drop Specifications</b>          | Withstand multiple 1.8m/6ft. drops to concrete | Withstand multiple 1.8m/6ft. drops to concrete | Withstand multiple 1.8m/6ft. drops to concrete | Withstand multiple 1.8m/6ft. drops to concrete | Withstand multiple 1.5m/5ft. drops to concrete | Withstand multiple 1.8m/6ft. drops to concrete | Withstand multiple 1.8m/6ft. drops to concrete | Withstand multiple 1.8m/6ft. drops to concrete | Withstand multiple 1.5m/5ft. drops to concrete | Withstand multiple 1.5m/5ft. drops to concrete |
| <b>Environmental Sealing</b>        | IP41                                           | IP41                                           | IP41                                           | IP41                                           | IP41                                           | IP41                                           | IP41                                           | IP41                                           | IP41                                           | IP41                                           |
| <b>Operating Temperature</b>        | -10 °C to 50 °C (14 °F to 122 °F)              | -10 °C to 50 °C (14 °F to 122 °F)              | -10 °C to 50 °C (14 °F to 122 °F)              | -10 °C to 50 °C (14 °F to 122 °F)              | -10 °C to 50 °C (14 °F to 122 °F)              | -10 °C to 50 °C (14 °F to 122 °F)              | -10 °C to 50 °C (14 °F to 122 °F)              | -10 °C to 50 °C (14 °F to 122 °F)              | -10 °C to 50 °C (14 °F to 122 °F)              | -10 °C to 50 °C (14 °F to 122 °F)              |
| <b>Storage Temperature</b>          | -40 °C to 70 °C (-40 °F to 158 °F)             | -40 °C to 70 °C (-40 °F to 158 °F)             | -40 °C to 70 °C (-40 °F to 158 °F)             | -40 °C to 70 °C (-40 °F to 158 °F)             | -40 °C to 70 °C (-40 °F to 158 °F)             | -40 °C to 70 °C (-40 °F to 158 °F)             | -40 °C to 70 °C (-40 °F to 158 °F)             | -40 °C to 70 °C (-40 °F to 158 °F)             | -40 °C to 70 °C (-40 °F to 158 °F)             | -40 °C to 70 °C (-40 °F to 158 °F)             |
| <b>Humidity</b>                     | 5% to 95% related humidity, non-condensing     | 5% to 95% related humidity, non-condensing     | 5% to 95% related humidity, non-condensing     | 5% to 95% related humidity, non-condensing     | 5% to 95% related humidity, non-condensing     | 5% to 95% related humidity, non-condensing     | 5% to 95% related humidity, non-condensing     | 5% to 95% related humidity, non-condensing     | 5% to 95% related humidity, non-condensing     | 5% to 95% related humidity, non-condensing     |
| <b>Ambient Light Immunity</b>       | 0 ~ 100,000 lux                                | 0 ~ 100,000 lux                                | 0 ~ 100,000 lux                                | 0 ~ 100,000 lux                                | 0 ~ 100,000 lux                                | 0 ~ 100,000 lux                                | 0 ~ 100,000 lux                                | 0 ~ 100,000 lux                                | 0 ~ 100,000 lux                                | 0 ~ 100,000 lux                                |
| <b>Recommend cleaning solutions</b> |                                                | Gentle dish soap water or alcohol solvent      |                                                | Gentle dish soap water or alcohol solvent      |                                                |                                                |                                                | Gentle dish soap water or alcohol solvent      |                                                |                                                |

### Physical Characteristics

|                  |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                      |                                                                                        |                                                                                        |                                                                                        |                                                                                      |                                                                                        |
|------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Dimension</b> | 95.0 mm (L) x 70.5 mm (W) x 161.7 mm (D)<br>3.74 in. (L) x 2.77 in. (W) x 6.36 in. (D) | 95.0 mm (L) x 70.5 mm (W) x 161.7 mm (D)<br>3.74 in. (L) x 2.77 in. (W) x 6.36 in. (D) | 97.8 mm (L) x 70.5 mm (W) x 156.2 mm (D)<br>3.85 in. (L) x 2.77 in. (W) x 6.15 in. (D) | 97.8 mm (L) x 70.5 mm (W) x 156.2 mm (D)<br>3.85 in. (L) x 2.77 in. (W) x 6.15 in. (D) | 97.0 mm (L) x 65.0 mm (W) x 156 mm (D)<br>3.81 in. (L) x 2.55 in. (W) x 6.14 in. (D) | 97.8 mm (L) x 70.5 mm (W) x 156.2 mm (D)<br>3.85 in. (L) x 2.77 in. (W) x 6.15 in. (D) | 97.8 mm (L) x 70.5 mm (W) x 156.2 mm (D)<br>3.85 in. (L) x 2.77 in. (W) x 6.15 in. (D) | 97.8 mm (L) x 70.5 mm (W) x 156.2 mm (D)<br>3.85 in. (L) x 2.77 in. (W) x 6.15 in. (D) | 97.0 mm (L) x 65.0 mm (W) x 156 mm (D)<br>3.81 in. (L) x 2.55 in. (W) x 6.14 in. (D) | 165.0 mm (L) x 64.7 mm (W) x 38.7 mm (D)<br>6.50 in. (L) x 2.55 in. (W) x 1.52 in. (D) |
| <b>Weight</b>    | 152g (cable excluded)                                                                  | 152g (cable excluded)                                                                  | 157g (cable excluded)                                                                  | 157g (cable excluded)                                                                  | 125g (without cable)                                                                 | 157g (cable excluded)                                                                  | 157g (cable excluded)                                                                  | 157g (cable excluded)                                                                  | 125g (without cable)                                                                 | 106g                                                                                   |
| <b>Color</b>     | Black                                                                                  | Plastic: Healthcare White<br>Over-mold: Light Blue                                     | Light Gray or Black                                                                    | Plastic: Healthcare White<br>Over-mold: Light Blue                                     | Light Gray or Black                                                                  | Black                                                                                  | Light Gray or Black                                                                    | Plastic: Healthcare White<br>Over-mold: Light Blue                                     | Light Gray or Black                                                                  | Light Gray or Black                                                                    |
| <b>Current</b>   | Operating : Typical 285 mA @5VDC<br>Standby : Typical 160 mA @5VDC                     | Operating : Typical 285 mA @5VDC<br>Standby : Typical 160 mA @5VDC                     | Operating : Typical 190 mA @5VDC<br>Standby : Typical 90 mA @5VDC                      | Operating : Typical 190 mA @5VDC<br>Standby : Typical 90 mA @5VDC                      | Operating : Typical 190 mA @5VDC<br>Standby : Typical 90 mA @5VDC                    | Operating : Typical 180 mA @5VDC<br>Standby : Typical 80 mA @5VDC                      | Operating : Typical 180 mA @5VDC<br>Standby : Typical 80 mA @5VDC                      | Operating : Typical 180 mA @5VDC<br>Standby : Typical 80 mA @5VDC                      | Operating : Typical 180 mA @5VDC<br>Standby : Typical 80 mA @5VDC                    | Operating : Typical 170 mA @5VDC<br>Standby : Typical 75 mA @5VDC                      |