

# SLX-VIDEO

## EDGE VIDEO RECORDING HARDWARE SPECIFICATIONS

| CAMERA SPECIFICATIONS       |                          |                                   |
|-----------------------------|--------------------------|-----------------------------------|
| Image Sensor + Lens Options | 1080P (2MP Image Sensor) | ~110° fixed lens (Wide FOV)       |
|                             | 4K (12MP Image Sensor)   | ~120° fixed lens (Wide FOV)       |
|                             |                          | ~80° fixed lens (Mid FOV)         |
|                             |                          | ~40° DFOV fixed lens (Narrow FOV) |
| Wide Dynamic Range          | 1080P 4K                 | ~72dB at 8X gain                  |

| COMPRESSION STANDARD |       |                          |
|----------------------|-------|--------------------------|
| Video Compression    |       | H.264                    |
| H.264 Type           |       | High Profile             |
| Video Bit Rate       | 1080P | Default 1mb/s            |
|                      | 4K    | Default 4mb/s            |
| Dual Streams         |       | Supported for 1080p only |

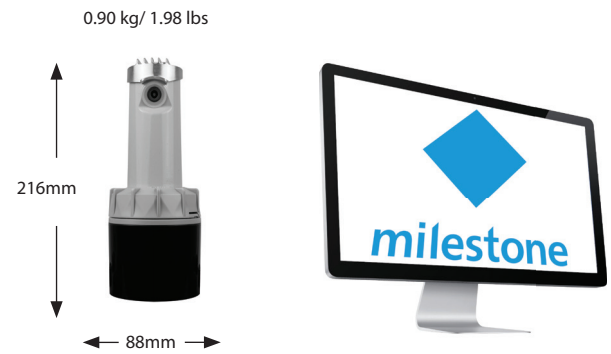
| IMAGE            |       |  |
|------------------|-------|--|
| Max. Resolution  | 1080P | 1920 x 1080 pixels                             |
|                  | 4K    | 3840 x 2160 pixels                             |
| Max Frame Rate   |       | 30 fps   |
| On-Board Storage |       | Built-In Micro SD/SDHC/SDXC Slot, Up to 1.5 TB |

| ELECTRICAL/MECHANICAL/ ENVIRONMENTAL |   |
|--------------------------------------|---|
| Electrical Input                     | See SLX-Controls Spec Sheet for more information. ANSI C136.10 and C136.41 compliant. |
| Power Consumption                    | 4W Avg @120V, 5.75W Max @120V   |
| Vandal Resistance                    | IK-08 rated.  |
| Ingress Protection                   | IP-66 rated   |
| Temperature Rating                   | -30°C to +40°C rated (-22°F to +104°F)  |
| Total Dimensions                     | 88 mm maximum diameters, 216 mm maximum height  |
| Total Weight                         | 900 g   |

| CERTIFICATIONS                |                |
|-------------------------------|----------------|
| Product Safety Certification  | UL             |
| FCC                           | FCC, IC        |
| Cellular module certification | PTCRB, FCC, IC |

| INTEROPERABILITY STANDARDS                                      |  |
|---|--|
| ONVIF Profile S (streaming ) supported <sup>1</sup>             |  |
| ONVIF Profile G (edge recording uploads) supported <sup>1</sup> |  |

All information provided is subject to change without notice. <sup>1</sup>Compatibility to be verified on a per VMS basis.



| USER INTERFACE  |
|---|
| Smart Client with intuitive, user-friendly interface  |
| Simple access to live streaming and edge retrieval functionality with separate, easy-to-navigate tabs |
| One-click access to live-streaming (1 minute streaming default to limit cellular data usage)          |
| User friendly calendar based access to edge-retrieval and video export functionality                  |
| Create custom views for multi-camera viewing  |

| ASSET MANAGEMENT   |
|--|
| Liveable Cities cameras come pre-commissioned to Milestone |
| Device Firmware upgrades available over-the-air            |

| VIDEO STORAGE   |
|---|
| Cloud based video storage, no on-premise storage requirements         |
| Cloud storage of retrieved video for up to 30 days from date of video |
| Video can be exported in .mkv file format                             |
| Live stream video is not automatically saved into cloud storage       |

| UPGRADES AVAILABLE   |
|--|
| Greater than 30-day cloud storage of edge retrieved video  |
| Grouping of devices by region  |
| Evidence Locker  |
| Web Client provides one-click access to live-streaming and access to view videos which have been retrieved by Smart Client |

| PRIVACY                   |   |
|---------------------------|---|
| Privacy                   | The system allows for Privacy Masking   |
| License Plate Recognition | The system does not recognize or record license plates                          |
| Facial Recognition        | The system does not track individuals or perform any form of facial recognition |
| Audio Recording           | The system is not equipped with a microphone for audio recording                |

| NETWORK       |     |
|---------------|-----|
| Communication | LTE |

# ORDER GUIDE - 1080P



| REPEAT ORDER                 |                             |                    |
|------------------------------|-----------------------------|--------------------|
| <input type="checkbox"/> YES | <input type="checkbox"/> NO | IF YES, LAST PO #: |
| <input type="text"/>         |                             |                    |

| SERIES | IMAGE SENSOR & LENS               | VOLTAGE                            | SD CARD   | RECORD BITRATE     | STREAM BITRATE <sup>12</sup>                              | CELLULAR DATA BUDGET <sup>3</sup> [MONTHLY] | VIDEO MANAGEMENT SYSTEM (VMS)  | ANALYTICS <sup>45</sup>   | OTHER OPTIONS  |
|--------|-----------------------------------|------------------------------------|---|--------------------|---|---|--|---|--|
| CX     | 2                                 |                                    |   |                    |   |   |  |   |  |
| CX     | 2-Dual 1080p, 2MP, 110°(Wide FOV) | 2-220-240V (CE)<br>A-120-480V (UL) | 032-32GB<br>064-64GB<br>128-128GB<br>256-256GB<br>512-512GB<br>1T0-1TB<br>1T5-1.5TB | 1-1MBPS<br>2-2MBPS | A-100KBPS<br>B-256KBPS<br>C-512KBPS<br>1-1MBPS<br>2-2MBPS | 05-5GB<br>10-10GB<br>XX-Custom GB           | X-No VMS<br>M-Milestone VMS supplied and cloud hosted by LRL/LC<br>C-Customer supplied ONVIF VMS | XX-No analytics<br>V- Vehicle Count (Large, Small, Motorcycle)<br>ID-Intrusion Detection<br>BC-Bike Count (Path / Bike Lane only)<br>ST-Stopped Traffic<br>SO-Space Occupied (loading zone, rush regulation)<br>WW- Wrong Way Detection | If applicable, insert 4 digit Special Product Request code (SPR) |

<sup>1</sup>Stream quality depends on available bandwidth (BW) in the region <sup>3</sup>0.6GB data used by camera in steady state to communicate on-line status and health with VMS <sup>4</sup>Only one analytic can run per image sensor except for ID <sup>5</sup>Analytics can only be set up after installation  
<sup>2</sup>Default configuration: 512GB SD card, 1 Mbps record bitrate, 1 Mbps stream bitrate, and a 5GB cellular data budget. For additional details, see the last page.

| Required for repeat orders            |  | For SmartLinx Setup (Not Required For Repeat Orders)     |  | CONTROLLER  |      |
|---------------------------------------|--|--|--|---|------|
| <b>ORDERING AND SETUP INFORMATION</b> |  | Streetlighting Data Collection, Visualization, & Control |  | YES<br><i>Required for analytics data visualization</i> |      |
| Order Configuration                   |  | Default Lighting Type<br>Example: LED, HPS, Mixed, Other |  | NO  |      |
| Quantity                              |  | Dimming  |  | 0-10V   | DALI |
| Customer Name                         |  | Address  |  | Lat:  | None |
| Project Name                          |  | SmartLinx Site Admin                                     |  | Long:   |      |
| Approved By                           |  |  |  | Name  |      |
| Date                                  |  |  |  | Phone   |      |
| Comments                              |  |  |  | Email   |      |

| Internal (Not Required For Repeat Orders) |       |        |     |  |              |            |        |
|---|-------|--------|-----|--|--------------|------------|--------|
| Controller Network Type                   | LTE-M | NB-IoT | LTE |  | Customer ID# | Controller | Camera |

| Required For Milestone [VMS=M] (Not Required For Repeat Orders) |                       |          |       | CAMERA |
|---|-----------------------|----------|-------|--------|
| <b>CONTACT INFORMATION</b>                                      |                       |          |       |        |
| Name  | Phone                 | Comments |       |        |
| Address   |                       |          |       |        |
| City  | State/Province        |          |       |        |
| Country   | Postal Code/ Zip Code |          |       |        |
| <b>ADMIN USERS*</b>   |                       |          |       |        |
| Name  | Name                  | Name     | Name  |        |
| Phone   | Phone                 | Phone    | Phone |        |
| Email   | Email                 | Email    | Email |        |
| <b>STANDARD USERS</b>   |                       |          |       |        |
| Name  | Name                  | Name     | Name  |        |
| Phone   | Phone                 | Phone    | Phone |        |
| Email   | Email                 | Email    | Email |        |

\*Admin User has the ability to direct liveable cities to add and remove users, and will be the point of contact for the customer for communications around product support, firmware upgrades, etc



84 Chain Lake Drive, Halifax,  
Nova Scotia, Canada, B3S 1A2

T: +1.902.450.2222  
F: +1.902.450.0675

liveablecities.com  
info@liveablecities.com

# ORDER GUIDE - 4K



| REPEAT ORDER                 |                             |                    |
|------------------------------|-----------------------------|--------------------|
| <input type="checkbox"/> YES | <input type="checkbox"/> NO | IF YES, LAST PO #: |
| <input type="text"/>         |                             |                    |

| SERIES    | IMAGE SENSOR & LENS   | VOLTAGE  | SD CARD   | RECORD BITRATE                     | STREAM BITRATE <sup>12</sup>  | CELLULAR DATA BUDGET <sup>3</sup> [MONTHLY]               | VIDEO MANAGEMENT SYSTEM (VMS)   | ANALYTICS <sup>45</sup>  | OTHER OPTIONS  |
|-----------|---|--|---|------------------------------------|---|---|---|--|--|
| <b>CX</b> |   |  |   |                                    |   |   |   |  |  |
| CX        | <b>1</b> – Single 4K, 12MP 120° (Wide FOV)<br><b>B</b> – Single 4K, 12MP 80° (Mid FOV)<br><b>A</b> – Single 4K, 12MP 40° (Narrow FOV) | <b>2</b> -220-240V (CE)<br><b>A</b> -120-480V (UL) | <b>032</b> -32GB<br><b>064</b> -64GB<br><b>128</b> -128GB<br><b>256</b> -256GB<br><b>512</b> -512GB<br><b>1T0</b> -1TB<br><b>1T5</b> -1.5TB | <b>4</b> -4MBPS<br><b>8</b> -8MBPS | <b>A</b> -100KBPS<br><b>B</b> -256KBPS<br><b>C</b> -512KBPS<br><b>1</b> -1MBPS<br><b>2</b> -2MBPS<br><b>4</b> -4MBPS<br><b>8</b> -8MBPS | <b>05</b> -5GB<br><b>10</b> -10GB<br><b>XX</b> -Custom GB | <b>X</b> -No VMS<br><b>M</b> -Milestone VMS supplied and cloud hosted by LRL/ LC<br><b>C</b> -Customer supplied ONVIF VMS | <b>XX</b> -No analytics<br><b>VC</b> -Vehicle Count (Large, Small, Motorcycle)<br><b>ID</b> -Intrusion Detection<br><b>BC</b> -Bike Count (Path / Bike Lane only)<br><b>ST</b> -Stopped Traffic<br><b>SO</b> -Space Occupied (Loading zone, Rush regulation)<br><b>WW</b> -Wrong Way Detection | If applicable, insert 4 digit Special Product Request code (SPR) |

<sup>1</sup>Stream quality depends on available bandwidth (BW) in the region <sup>3</sup>0.6GB data used by camera in steady state to communicate on-line status and health with VMS

<sup>2</sup>Default configuration: 1TB SD card, 4 Mbps record bitrate, 4 Mbps stream bitrate, and a 10GB cellular data budget. For additional details, see the last page.

<sup>4</sup>Only one analytic can run per image sensor  
<sup>5</sup>Analytics can only be set up after installation

| Required for repeat orders            |  | For SmartLinux Setup (Not Required For Repeat Orders)    |       |   | CONTROLLER |    |
|---------------------------------------|--|--|-------|---|------------|----|
| <b>ORDERING AND SETUP INFORMATION</b> |  | Streetlighting Data Collection, Visualization, & Control |       | YES<br><i>Required for analytics data visualization</i> |            | NO |
| Order Configuration                   |  | Default Lighting Type<br>Example: LED, HPS, Mixed, Other |       |   |            |    |
| Quantity                              |  | Dimming  | 0-10V | DALI  | None       |    |
| Customer Name                         |  | Address  | Lat:  |   |            |    |
| Project Name                          |  |  | Long: |   |            |    |
| Approved By                           |  | SmartLinux Site Admin                                    | Name  |   |            |    |
| Date                                  |  |  | Phone |   |            |    |
| Comments                              |  |  | Email |   |            |    |

| Internal (Not Required For Repeat Orders) |       |        |     |  |              |            |        |
|---|-------|--------|-----|--|--------------|------------|--------|
| Controller Network Type                   | LTE-M | NB-IoT | LTE |  | Customer ID# | Controller | Camera |

| Required For Milestone [VMS=M] (Not Required For Repeat Orders) |                       |          |       | CAMERA |
|---|-----------------------|----------|-------|--------|
| <b>CONTACT INFORMATION</b>                                      |                       |          |       |        |
| Name  | Phone                 | Comments |       |        |
| Address   |                       |          |       |        |
| City  | State/Province        |          |       |        |
| Country   | Postal Code/ Zip Code |          |       |        |
| <b>ADMIN USERS*</b>   |                       |          |       |        |
| Name  | Name                  | Name     | Name  |        |
| Phone   | Phone                 | Phone    | Phone |        |
| Email   | Email                 | Email    | Email |        |
| <b>STANDARD USERS</b>   |                       |          |       |        |
| Name  | Name                  | Name     | Name  |        |
| Phone   | Phone                 | Phone    | Phone |        |
| Email   | Email                 | Email    | Email |        |

\*Admin User has the ability to direct liveable cities to add and remove users, and will be the point of contact for the customer for communications around product support, firmware upgrades, etc







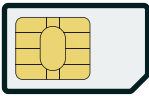
84 Chain Lake Drive, Halifax,  
Nova Scotia, Canada, B3S 1A2

T: +1.902.450.2222  
F: +1.902.450.0675

liveablecities.com  
info@liveablecities.com

# ADDITIONAL INFO

|   | Recommended for max storage |  | Recommended for max quality |  | Recommended SD size card. |     |       |
|---|-----------------------------|---|-----------------------------|---|---------------------------|-----|-------|
| SD Storage Capacity - In Days (approximate)                                       |                             |   |                             |   |                           |     |       |
|  | 32GB                        | 64GB  | 128GB                       | 256GB   | 512GB                     | 1TB | 1.5TB |
| 2 x 1080P<br>1MB/S Bitrate  | 1.5                         | 3   | 6                           | 12  | 23                        | 47  | 71    |
| 2 x 1080P<br>2MB/S Bitrate  | 0.7                         | 1.5   | 3                           | 6   | 12                        | 23  | 35    |
| 1 x 4K<br>4MB/S Bitrate   | 0.7                         | 1.5   | 3                           | 6   | 12                        | 23  | 35    |
| 1 x 4K<br>8MB/S Bitrate   | 0.4                         | 0.7   | 1.5                         | 3   | 6                         | 12  | 17    |

| Video Upload & On-Demand Stream Budget per device (approximate)*                  |                     |              |                     |                      |                     |                     |
|---|---------------------|--------------|---------------------|----------------------|---------------------|---------------------|
|  |                     | # of Cameras |                     |                      |                     |                     |
|   |                     | 1            | 10                  | 25                   | 50                  | 100                 |
| <b>1080P @ 1MB/S Bitrate</b>  | 5GB Plan (Default)  | 9.8 hrs      | 98 hrs (~4 days)    | 244 hrs (~10 days)   | 488hrs (~20 days)   | 978 hrs (~40 days)  |
|   | 10GB Plan           | 20.9 hrs     | 209 hrs (~8.5 days) | 522 hrs (~22 days)   | 1044 hrs (~43 days) | 2088 hrs (~87 days) |
| <b>1080P @ 2MB/S Bitrate</b>  | 5GB Plan (Default)  | 4.9 hrs      | 49 hrs (~2 days)    | 122 hrs (~5 days)    | 244hrs (~10 days)   | 488 hrs (~20 days)  |
|   | 10GB Plan           | 10.4 hrs     | 104 hrs (~4 days)   | 261 hrs (~11 days)   | 522 hrs (~22 days)  | 1044 hrs (~43 days) |
| <b>4K @ 4MB/S Bitrate</b>   | 5GB Plan            | 2.3 hrs      | 23 hrs (~1 day)     | 65 hrs (~2.7 days)   | 131 hrs (~5.5 days) | 232hrs (~11 days)   |
|   | 10GB Plan (Default) | 4.6 hrs      | 46 hrs (~2 days)    | 130 hrs (~5.4 days)  | 232 hrs (~11days)   | 464 hrs (~22 days)  |
| <b>4K @ 8MB/S Bitrate</b>   | 5GB Plan            | 1.2 hrs      | 12 hrs (~0.5 days)  | 31 hours (~1.3 days) | 61 hrs (~2.5 days)  | 122 hrs (~5 days)   |
|   | 10GB Plan (Default) | 2.3 hrs      | 23 hrs (~1 day)     | 65 hrs (~2.7 days)   | 131 hrs (~5.5 days) | 232 hrs (~11 days)  |

\*Data plan is per SIM Card, so available data budget is per device regardless of the number of image sensors in a device.