

# It's time.

The X20 AgCam system from Topcon Precision Agriculture is a leader in providing high quality images. View input from up to 4 video cameras mounted on the vehicle on the same X20 console used for all other Precision Agriculture functions. Providing high quality images in a variety of lighting situations, X20 AgCam gives the operator improved machine control, better safety and monitoring. X20 AgCam uses a unique camera that has been engineered to withstand harsh environments with ease and reliability. Featuring a completely waterproof housing, hi-resolution colour and infrared processing, X20 AgCam can be used in a variety of farming applications.

X20 Guidance displays the picture, maximized on the coverage map screen or minimized below the guidance virtual road. The picture can be toggled between the two screens simply by a single touch of the screen.

## Day or Night Vivid Colour or Infrared

X20 AgCam can be used in a variety of light conditions. The camera will allow for immediate transfer from a bright to very dark environment with no interruption in high quality picture. X20 AgCam features an exclusive photochromatic lens with auto darkening properties. It is also equipped with infrared night vision to suit a variety of installation requirements.

## Video Anywhere

Using a single wire hook-up and a strong magnet, the X20 AgCam is easily transferred for different applications.

- View the height of grain in the combine hopper
- Monitor operations of equipment not otherwise visible to the operator such as belts, motors, fans and other equipment
- View NH3 gauges and sprayer nozzles from the machine cab
- Monitor air seeder tank levels day or night using high performance infrared illuminators
- Monitor seeder or planter bars for optimal operations
- Detect obstructions such as trash build-up under implements
- Reduce neck strain by using your AgCam to monitor your implement while cultivating, ditching and spraying
- Monitor the chaser bins or baler pickup
- Mount the AgCam on the rear of trailing implements (sprayers, air seeders) to make lining up and reversing easier

## Easy To Use

The X20 Ag Cam software is fully integrated with the X20 software and uses the same screen configuration and menu system that X20 customers around the world have found to provide the easiest to use system for in-vehicle use.

## Installation Requirements

The X20 AgCam can be fitted on all Topcon Precision Agriculture X20 consoles. The standard X20 AgCam kit comes with 1 AgCam video camera, 1 video junction box and harnesses. Up to 3 additional cameras can be connected and are available as options. Each AgCam Camera includes a 6m (20 ft) and a 18m (60 ft) cable for different installation requirements. Lengths may be added at any time for a maximum of 48m (160 feet).

THE X20 AGCAM IS SIMPLE TO INSTALL, HOWEVER WE RECOMMEND THAT IT BE INSTALLED BY A TOPCON AUTHORISED AND TRAINED INSTALLER.

## Specifications

|                                   |  |
|-----------------------------------|--|
| <b>Software</b>                   | Windows® XP Professional®<br>1GHz Processor<br>512MB RAM<br>2GB Solid State Drive<br>128MB Thumb drive   |
| <b>Display &amp; Touch Screen</b> | 8.4" 21.3cm TFT Active Matrix colour<br>Indoor/Outdoor display with resistive touch screen<br>SVGA 800 x 600 pixels<br>32 bit colour<br>Contrast Ratio 400:1<br>Brightness 400 col/m2<br>Brightness control via software<br>External XGA monitor support- 1024 x 768 |
| <b>Interfaces</b>                 | 4 x RS232 Ports<br>COM2 configurable to RS232 or RS485<br>4 x USB 2.0 Ports (2 at rear, 2 at side)<br>1 CANBUS Port (ISO11783)<br>2 x PS2 Ports<br>1 x VGA Port<br>1 x 10/100 Base T Ethernet Port 100 Mbs LAN   |
| <b>Audio</b>                      | 1.5W Stereo audio amplifier<br>Internal speaker<br>Ext. stereo line inputs/outputs mic (6 pin DIN socket)  |
| <b>Power</b>                      | Input voltage 9-18V DC<br>Built in protection from power supply voltage transients<br>Intelligent power management system  |
| <b>Physical</b>                   | Size: 7.4" x 9.8" x 2.7" (188mm x 248mm x 70mm)<br>Weight: 5.8 pounds (2.6kg)<br>International Standard Mounting System (RAM)  |

## AgCam Specifications

|                              |                                      |
|------------------------------|--------------------------------------|
| <b>Image Pick-Up Device</b>  | Sony 1/3: Super HAD CCD              |
| <b>Horizontal Resolution</b> | 420 TV lines                         |
| <b>Minimum Illumination</b>  | 0 Lux @ F2.0                         |
| <b>Scanning System</b>       | Interlaced 2:1                       |
| <b>Lens</b>                  | 3.6mm/F2.0 Photochromic Body Lens    |
| <b>Video Output</b>          | 1 Vp-p/75 Ohms                       |
| <b>Operating Temp.</b>       | -45°F – 150°F (-42°C – 66°C)         |
| <b>Construction</b>          | Anodized Aluminium Case              |
| <b>Waterproofing</b>         | IP 68/69                             |
| <b>Dimension</b>             | 50.8mm (2") (H) x 57.2mm (2.25") (L) |
| <b>Weight</b>                | 374g (13.2oz)                        |



### Topcon Precision Agriculture

14 Park Way, Mawson Lakes  
South Australia, 5095  
[www.topconpositioning.com](http://www.topconpositioning.com)

#### Specifications subject to change without notice

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Your local Authorised Topcon Precision Agriculture dealer is:

**X20**

# AG CAM



**View input from up to four video cameras!**



- FULLY INTEGRATED WITH THE X20 CONSOLE AND APPLICATIONS
- DISPLAY VIDEO OUTPUT FROM UP TO 4 CAMERAS
- ABLE TO BE EMPLOYED IN A VARIETY OF APPLICATIONS
- HIGH QUALITY, ROBUST, DAY OR NIGHT CAMERAS
- USE IN CONJUNCTION WITH HARVESTER, SEEDER AND SPRAYER FOR A COMPLETE SOLUTION