

# GatorCam4 system









Advanced performance. Class leading flexibility.



#### **Digital video**

Digital zoom and pan to focus in on problem areas. Rotate images to make them easier to interpret. Pictures and video are stored in portable USB or Compact Flash memory.



# Ultra-tough high resolution cameras

Stainless steel construction in a compact design. High resolution sensors and ultra bright white LEDs ensure a clear picture, even when submerged in water up to 330'/100m deep.

## GatorCam4 system

Advanced performance. Class leading flexibility.

## GatorCam4 pushrod inspection systems redefine convenience and control in pipeline inspection.

At the heart of the **GatorCam4** system is the weatherproof **GatorCam4** us controller, which displays color footage in digital quality on an ultra-bright 8" TFT screen. USB flash drive and Compact Flash storage options along with PC connectivity provide flexible data storage and comprehensive reporting capabilities.

**GatorCam4** systems have been designed to deliver controllable and high quality video inspection for any situation, from residential work and commercial use through to specialist plant and municipal applications.

Fully sealed 1" (25mm) and 2" (50mm) cameras can be mounted on a range of rods: from the ultra-flexible 100' (30m) Plumbers Reel, designed for accessing tight corners, to the 500' (150m) Specialist Reel designed to push for long distances. A range of compatible sondes, skids, brushes and accessories completes the package.

#### **Digital recordings**

The fully digital controller system architecture provides precise control over inspections and recordings. Digital rotate, pan and zoom functions let you focus in on problem areas during live or recorded inspections.

Video and still images are recorded directly onto USB memory sticks or Compact Flash cards for easy management and transfer.

Tough and convenient high speed USB flash drives or compact flash cards are widely available in variety of memory sizes, so you can choose the type and size of storage device that meets your needs. With no moving parts your valuable data is protected against shocks and impacts.

#### One-touch recording and still picture capture

A single key press on the ruggedized keypad records high quality, full digital video, which is automatically time and date stamped and logged against the job that you are working on. Similarly, still pictures can be captured, inspected and filed at any point during your inspection with a single key press.

An 8Gb storage device is capable of storing up to 7 hours of high quality video.

To enhance the inspection, audio can be added to recordings via the optional microphone headset, and text commentary incorporated using the splashproof keyboard. To add flexibility, up to 20 pages of text can be stored into the controller module.

#### **Ruggedized construction**

Despite weighing only 12lb (5.5kg), the **GatorCam4**usB controller is designed to operate reliably in harsh weather conditions. The tough polypropylene casing is designed to resist scuffs and impacts, while the comprehensive sealing gives an IP53 rating when operating – and IP55 with the covers closed, minimizing the risk of damage from debris or water ingress. The cameras are designed to operate at up to 11 bar of pressure, the equivalent of a depth of 330' (100m) of water.



#### Fuse holder

PC, USB

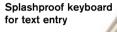
Ultra-flexible Plumbers reel

Video In/Out

Flash Drive

Power socket

Compact Flash card slot



Ultra-bright 8" TFT screen

to all key functions:

• One-touch record

Durable keypad for easy access

One-touch still picture capture

One-touch digital functions

Easily transportable compact reel options

Waterproof stainless steel camera with ultra bright white LEDs





Each GatorCam4 system comes complete with a universal easy-fit brush skid set, that allows the 1" camera to be used in pipes up to 4" (100mm) diameter and the 2" camera in pipes up to 6" (150mm) diameter. Brushes can be conveniently replaced in seconds. Additional standard equipment may vary due to regional variations.



#### **Connectivity**

Video and pictures can be copied from a Compact Flash card directly to a PC or laptop with a USB cable or transferred using a USB memory stick.



#### A range of rods to suit your application

From 100' (30m) for residential and small commercial plumbing use, right up to 500' (150m) for specialist applications.

#### **USB** flash drives

The **GatorCam4**use command module supports the popular USB flash drive: simply plug your own or your customer's high speed memory stick into the USB slot and start recording and storing inspection videos, photos and observations directly into it.

USB memory sticks can be connected to any PC for direct access to your digital data without the need of an external card reader or the **GatorCam4**usB controller.

#### **Outstanding picture quality**

The **GatorCam4** system offers two cameras, a 1" (25mm) and a 2" (50mm), equipped with high resolution sensors and the latest generation ultra-bright white LEDs, which combine to deliver a crisp, clear picture in most pipe conditions.

The **GatorCam4** self leveling 2" camera features a sapphire window to protect its lens and a sensor which boasts over 39% higher horizontal resolution than its predecessor (460 vs 330 usable horizontal TVL).



The **GatorCam4** 1" camera features a tough polycarbonate cover to protect the LEDs all in a small, compact package, specifically designed to help navigating through bends.

Both cameras come with a manual focus tool which allows you to adjust the focus of your camera to the correct pipe size ensuring you do not miss the smallest defect.

Packaged in tough 303 stainless steel cases, they can withstand 11 bar pressure, equivalent to a depth of 330' (100m) of water.

#### Plumbers reel

Where extra flexibility is needed, the Plumbers reel coupled with the compact 1" camera offers outstanding performance around tight bends and traps, negotiating most traps (from 2"/50mm) and bends (from 11/4"/32mm). The Plumbers system is the ideal tool for your small pipe plumbing needs.

The flexible rod termination has a built-in transmitter sonde (512Hz/640Hz) which allows you to pinpoint its location and depth without compromising maneuverability around tight corners.



#### Easy to use software interface

The **GatorCam4**usB software has been specifically developed to make the **GatorCam4** system easy and intuitive to use. Setting up and customizing your controller is very simple thanks to the color based list menus, which clearly define all the options available.

Adding text to your survey is never more than one keyboard click away. Browse or edit up to 20 pages of text or automatically use them as titles at the beginning of your video recordings.

#### **Organize work effectively**

The **GatorCam4**usB controller quickly organizes your work in "Job" folders which are linked to the inspection you are carrying out, making the review and storage of videos, photos and observations straightforward.

Jobs can be created very quickly at the start of your first recording by entering a minimum set of information or by accessing the "Job Browser" menu and entering detailed information about your client, site and survey.

Jobs can be expanded by adding multiple surveys to the site you are inspecting or by adding different sites to the client you are working for.



#### Be more productive on-site

Use the comprehensive, built-in, **GatorCam4**usB reporting system to quickly
fill out report observations on-site without the
need for extra equipment. Report templates
are customizable to meet your
own requirements.

Entering detailed observation, including grading and photos, could not be easier, thanks to the built-in WRC<sup>™</sup>, PAPC<sup>™</sup> or custom made defect code lists.

Produce a SEWER.DAT report file directly from your GatorCam4usB controller.

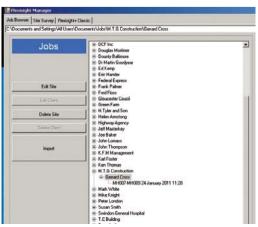
#### Manage your data and produce reports

The Flexisight<sup>™</sup> Manager software is the ideal PC companion of the **GatorCam4**usB controller. With this Windows<sup>®</sup> XP/Windows Vista<sup>®</sup>/Windows<sup>®</sup> 7 compatible software, you will be able to import, store and manage all your digital inspection data.

Use the "Job Browser" screen to quickly import and browse all your saved jobs.

Use the "Surveys" screen to review and edit videos, take snapshots, annotate photos and review, edit or create observations.

Produce comprehensive customizable reports, with your company logo, incorporating pipe graphics and color coded defect grading (requires Microsoft® Word 97 or higher).





#### Portable controller

Light weight and integrated carry handle make the weatherproof GatorCam4usB controller very easy to carry on site no matter the weather.

## Mains or battery powered

Use the GatorCam4 system anywhere, however remote the location – even if a mains or vehicle supply is not available (with optional battery packs).

## Integrated report writer

Quickly enter observations on site and export Sewer.Dat report files without needing to connect up – then view and edit them at your convenience on a PC and produce detailed reports with pipe graphics.



### GatorCam4 systems include as standard:

- GatorCam4usB controller.
- Choice of color cameras 1" (25mm) or 2" (50mm) diameter.
- Choice of pushrod reels:
  - 100' (30m) P341
     Plumbers reel.
  - 115' (35m) P341 reel.
  - 200' (60m) or 400' (120m) P342 reels.
  - 500' (150m) P343 reel.
- Controller adaptor clamp (optional for the P341).
- Flexisight<sup>™</sup> Manager Windows<sup>®</sup> PC software.
- 2Gb Compact Flash card.
- Splashproof keyboard, IP67 mains adaptor, 12V car jackplug lead.
- Universal brush & skid kit.

  Plumbers reel system includes
  a built-in 512/640Hz flexisonde.

  Midi and Specialist reel
  systems include a controller
  mounting clamp.



Standard equipment may vary due to regional variations.

### Specifications

#### Controller

	GatorCam4usB
Power	Controller: 12-24V DC, 40W External PSU: 100-240VAC, 50-60Hz, Max 1.2A
Screen	8"/200mm industrial TFT
Storage	High speed Compact Flash or USB flash drive
Connectivity	USB, video in/out, audio in/out.
Environmental	Controller: IP55 (covers closed) / IP53 (covers open and socket panel closed) External power supply: IP67 rated for outdoor use
Temperature	Storage: -4°F to 176°F / -20°C to +80°C  Operating: 14°F to 122°F / -10°C to 50°C
Dimensions	14" x 14" x 8"/360 x 360 x 200mm
Weight	12lbs / 5.5kg

#### **Rods and Reels**

	Plumbers	Mini	Midi	Specialist
Dimensions			33.5" x 29.5" x 16.5" 850 x 750 x 420mm	32.0" x 46.0" x 18.7" 813 x 1168 x 475mm
Weight	21lbs/9.4 kg	24lbs/11kg	40lbs/18.2 kg 55lbs/25kg	81.6lbs/37kg
Construction	Powder-coated tubular steel frame			
Rod	100'/30m	115'/35m	200'/60m) 400'/120m)	500'/150m)





#### **Cameras**

	GatorCam4 1"/25mm Camera	GatorCam4 2"/50mm Self Leveling Camera	
Dimensions	1" x 1.52" 25.4 x 38.7mm	1.89" x 2.87" 48 x 72.8mm	
Weight	0.13lbs/0.06kg	0.79lbs/0.36kg	
Construction	Stainless steel/polycarbonate	Stainless steel/sapphire glass/ polycarbonate	
Power	1.8W	3.8W	
Environmental	IP68 to 330' (100m) / 11bar		
Temperature	Storage: -4°F to 176°F / -20°C to +80°C  Operating: 14°F to 122°F / -10°C to 50°C		
Focus	Adjustable		
Focal range	10mm to ∞		
Lighting	Ultra bright white LEDs		
LED luminance	≥ <b>75lm</b>	≥ 208lm	
Active pixels (HxV)	656 x 492 NTSC 768 x 576 PAL	768 x 492 NTSC 765 x 582 PAL	
Horizontal resolution	≥ 460TVL		







### Options

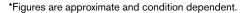
#### Sonde and locator combination

By combining your **GatorCam4** system with a sonde (included with the Plumber systems) and a suitable locator, you can pinpoint the camera's location and depth, providing a valuable tool for repairs and tracing alike. The RD7000DL+, capable of detecting 3 different sonde frequencies and featuring Dynamic Overload Protection and Compass, is specifically designed for the water industry, and capable of precisely locating a sonde even in electrically noisy areas.



#### **Battery packs**

Use the **GatorCam4** system anywhere with the optional, rechargeable, weatherproof battery packs. Two models are available: 7Ah giving 4 hours\* continuous operation and 12Ah for 8 hours\* operation. Even more flexibility is delivered by the optional 12V charger for in-vehicle charging.







# Accessories that extend your capabilities

Tailor your system to your needs with a range of solid sondes, flexisondes, cable and pipe locators and flexis.

### Completely modular

All cameras, controllers, rods and accessories are fully interchangeable, giving you the flexibility to expand your system at your pace.

\*Plumbers sonde not detachable.











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