MyTana

ACB18 Control Box
User Guide

Replaces our older ACB13 Monitor/Control Box for MyTana Classic style cameras

Inspect your unit carefully upon receipt. Let us know right away of any damage you may note. Included with your purchase are:

WiFi Router (dongle) enables wireless connection to your phone or tablet (with our Viewer APP). Plugs in to USB port. *See separate instructions for WiFi operations.*

Removable USB (flash) drive

Warranty Information Inspection Systems

All products are warranted against defects in material and workmanship for one year from date of purchase. All products are individually tested prior to shipment. Damage due to negligence, abnormal usage, accidents, or alteration is not covered by this warranty. **Examples of damage not covered by warranty:**

Help prevent repairs, see our **Care Tips** *back cover*

Damaged Camera Head Connector Ends

For PGR systems: see back page for how to care for the camera head connection.

For our older systems with pin connectors on the camera head, we recommend keeping the head attached to the push rod at all times to avoid accidental damage.

Damaged or Broken Connection Pins

For current PGR systems with a patch cord, care should be taken to avoid damage to the pins. Read all instructions carefully.

For our older systems with pin connectors on the patch cord. Be sure to line up all notches and pin holes when connecting. Don't force any connection.

Broken Sapphire Window

The sapphire is nearly as hard as diamond; however it can break with extreme impact, especially on sharp edges of broken concrete or clay tile. Using our IceBall, Snoball or other protective guides greatly reduces impact to the camera head.

Damaged Pushrod

The camera should not be forced through blockages. This can cause the wires inside the push rod to become kinked, buckled or severed. Guides and running water can help reduce friction as you push the camera through a pipe.

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Controls and Ports

POWER SOURCE RECEPTACLE
Any 3 prong extension cord can be used to power unit or recharge battery. Can be plugged in to standard wall outlet.

POWER
▶ **Give the unit 30 seconds to fully boot up**

Blinking Blue light indicates low battery. It will blink for 5-10 minutes before battery fails. Plug unit in to standard wall outlet to recharge.
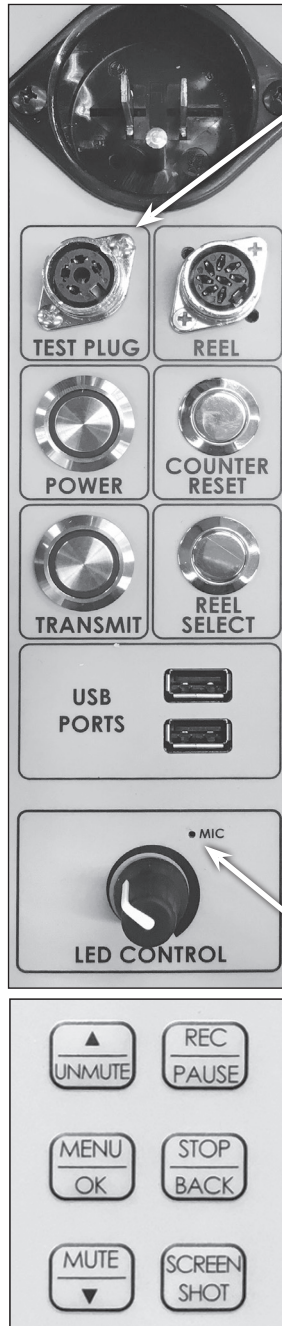
TRANSMIT
Generates 512hz signal at camera head for locating *(has nothing to do with Wi-Fi)*. **Will lose picture and lights on camera**

NOTE: You must be in Transmit mode to display the Footage count, or use either the Reel Select or Counter Reset buttons.

Transmit button may also remove persistent logo splash screen.

TEST PLUG Allows you to test camera head separately from push rod MyTana classic style cams (w/pins) only

> 1. Unplug push-rod reel cord from **REEL** port   ◀ **IMPORTANT!**
> 2. Disconnect camera head from the push rod, then carefully insert in to this port to test

REEL Connect push-rod patch cord here, classic style (w/pins) only

COUNTER RESET Resets footage counter to zero

REEL SELECT
Selects reel size you are using to keep footage count accurate.
> MSA- = mini reel (100')
> MS11- = mid-sized reel (150' or 200')
> MY30 (NGx10) = large reel (200')
> PGR400 = muni reel (400')

Also, hold REEL SELECT button for 3 seconds to switch from feet to metric (or metric to feet)

LED CONTROL
Full clockwise = full brightness

Microphone

Use these CONTROL PANEL buttons for recording and working with files. See next pages.
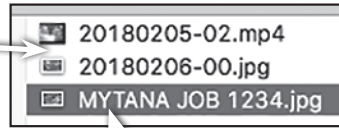
Operating the System

BASICS

We strongly recommend doing a test recording **BEFORE** you perform your first inspection in the field.

Keep the shipping caps that are on the ends of the camera head and the push rod. Use them to protect these connections whenever you remove the camera head in the future.

Files

In this manual, the term "**Files**" refers to your recordings, whether video (.mp4) or snapshots (.jpg)

> 20180205-02.mp4
> 20180206-00.jpg
> MYTANA JOB 1234.jpg

File Naming – by default, files are named with the date (YYYYMMDD) and a numbering sequence (-XX)

You can customize the names of files in the Overlay menu, see pgs 6-7 *requires a USB keyboard*

> ex: **20180205-02.mp4** – would be the *third* video recorded on Feb. 5, 2018
>
> the *first* will be "20180205-00", the *second* "20180205-01", etc.

Startup

– Push POWER button. Blue light around switch will glow. Wait about 30 seconds for MyTana logo to appear.
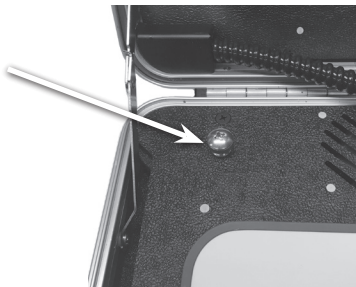
Battery

Recharge the internal battery by plugging the unit in to a standard wall outlet. Store the unit with half charge and in cool temperatures to extend battery life.

Transmit mode drains battery more quickly, use this only when locating 512Hz signal from camera head.

Ground Screw

Can be used for grounding purposes if needed.

RECORDING VIDEO

– Push REC/PAUSE

– Use the Control Panel arrow buttons ▲▼ to choose the drive you want to record to: Internal, External or Both. If external, be sure to insert USB (flash) drive in USB port.

   You can copy or move recordings to a different drive later. (see File Management menu selections next pages)

– Push MENU/OK to start recording. Red dot appears on screen and timer will start.

– Push STOP/BACK to stop recording.

AUDIO

MUTE is the default setting for recording, meaning NO sound will be recorded (MUTE is ON if you see "MUTE" on the screen).

NG2 **units have no speaker for playback**, so sound can only be heard when playing back on a computer.

To Record Sound

– Push UNMUTE and "MUTE" will disappear from the screen, the built-in microphone is now active.

   Make sure cover is removed, see image opposite page.

   If a wiFi dongle/router is in one of the USB ports, it could cause sound interference while recording to either the Internal or an external USB drive. **Remove the dongle to prevent interference**

TO TAKE STILL SHOTS

– Press the SCREEN SHOT button if you want still shots, (not available while recording video)

WIRELESS STREAMING

See separate Viewer APP instruction sheet for using WiFi operations.

Screen Menus

MAIN MENU

Push MENU/OK on the control panel to bring up the Main Menu on the screen.

Use the arrow ▲▼ buttons on the control panel to move the cursor to select any menu item.

```
= =  Menu  = =
    Play Video
    View snapshots
    Overlay
>   File management
    Setup
```

Press STOP/BACK repeatedly to exit any menu and return to previous screens.

> Play Video

View recordings by selecting the drive that you recorded to, Internal or external.

Refer to pg 3 for file naming information.

Use the ▲▼ buttons on the control panel to FAST FORWARD or REWIND during playback.

> View Snapshots

Lets you see static (.jpg) images – if you took snapshots rather than full video. See page 3 for instructions on how to take snapshots.

> Overlay (see pages 6-7)

Lets you to add, change or move the overlays that appear on your videos or images.

Most tasks require a USB Keyboard to be connected to one of the USB ports.

```
MYTANA MFG.LLC
746 SELBY AVE          82
ST PAUL MN 55104

JOB 1234 CAMERA INSPECTION
```

> File Management (see right)

This is the menu where you will work most with your files.
You can copy, move, or delete files.

> Setup

Lets you change the time and date in the unit. Your unit will arrive preset. If you wish to reset or change the time:

Select **Setup,** then MENU/OK

Select **Set Date/Time,** then MENU/OK

Use ▲▼ and MENU/OK to set the date and time

Push STOP/BACK repeatedly to exit menus

You can change the time format in the Overlay Menu, see pages 6-7

FILE MANAGEMENT MENU

If an external (flash) drive is NOT inserted in one of the USB ports, this menu will show and you can only **delete individual** files from the **internal** drive.

When a USB flash drive is inserted into one of the ports, there will be new options to copy (or move) files from one drive to the other, and you will be able to work with a group of files.

The default menu gives options to **Copy** or **Delete** files from the either the internal or external drive.

You can change the COPY option to **MOVE** (read caution below)

Use the ▲▼ buttons to move the cursor to
> Toggle Copy or Move

Press MENU/OK
Menu items will now say
"Move video from..." etc.

Press STOP/BACK to return to previous screen.

CAUTION!

COPYING files *duplicates* file(s) from one drive (internal or external) to the other.
▶ The file(s) **remain** in the original location Recommended

MOVING files *transfers* file(s) from one drive (internal or external) to the other.
▶ The file(s) are then **automatically deleted** from the original location. Do this procedure with care

FIRMWARE VERSIONS These instructions are current for MyTana Firmware ver. 1755. Older versions may have slightly different options in the screen menus.
To find your system's version, follow this path:
Main Menu > Setup > System Information > Firmware

```
= = File Management = =
    Delete files from internal
    Select files : Individual
```

```
= = File Management = =
    Copy video from internal
    Copy video from external
    Copy snapshots from internal
    Copy snapshots from external
    Delete files from internal
    Delete files from external
    Toggle Copy or Move
    Select files : Individual
```

The default menu is also setup to work with a single file (**Individual**)

You can change INDIVIDUAL to **GROUP** so you can select multiple files to work with at the same time

Use the ▲▼ buttons to move the cursor to
> Select Files: Individual

Press MENU/OK
   Menu changes to
   "Select Files: Group"

Press STOP/BACK to return to previous screen.

TO COPY/MOVE OR DELETE FILES

There must be a flash drive inserted in the USB port to Copy or Move files.
Read information in previous section (left) before doing these procedures.

Copying/moving files from a selected drive (internal or external) automatically chooses the other drive as the destination.

Use the ▲▼ buttons to move the cursor (>) to the procedure you want to do

Press MENU/OK

Your list of files will appear for selection.

```
= = File Management = =
    Copy video from internal
>   Copy video from external
    Copy snapshots from internal
    Copy snapshots from external
    Delete files from internal
    Delete files from external
    Toggle Copy or Move
    Select files : Individual
```

Selecting an Individual file: (default)

Use the ▲▼ buttons to move the cursor to the file you want to Copy/Move or Delete

Press MENU/OK
File will automatically Copy/Move or be Deleted.

   **Remember: if you MOVE a file, it will automatically be deleted from the original location (see CAUTION, opposite page).

Press STOP/BACK repeatedly to exit menus.

To select a GROUP of files:

Be sure the Menu shows "Select Files: Group" (see "change Individual to Group" left)

Use the ▲▼ buttons to move cursor to the first file you want to work with
   Press MENU/OK
   File will be selected as indicated by [x]

Move cursor to the next file
   Press MENU/OK

Repeat until you have selected all the jobs you wish to work with

Press STOP/BACK
   A screen will appear to confirm selections, it also gives options to Change the selection or Cancel the process.

Press STOP/BACK to apply the function and return to previous screens.

```
= = Copy video from internal = =
    [ ]20100425-03.mp4 5.30 MB
    [ ]20100425-02.mp4 2.94 MB
>   [ ]20100425-01.mp4 6.34 MB
    [ ]20100425-00.mp4 4.94 MB
```

```
= = Copy video from internal = =
    [ ]20100425-03.mp4 5.30 MB
    [ ]20100425-02.mp4 2.94 MB
    [x]20100425-01.mp4 6.34 MB
>   [ ]20100425-00.mp4 4.94 MB
```

```
= = 3 files selected = =
>   Copy files
    Change selection
    Cancel
```

Screen Menus *continued*

OVERLAY MENU

The Overlay menu lets you edit the text field overlays that appear on your videos or images.
You can also change the time format of the time/date stamp. **Most tasks require a USB Keyboard**
Connect the keyboard to one of the USB ports on the front of the camera.

Tasks that do not require a keyboard are indicated >>

WORKING WITH CUSTOM TEXT

JOB 1234 CAMERA INSPECTION

Adding Custom Text
Replaces date/time stamp at bottom of screen

– Push MENU/OK on control panel to access the Main Screen

– Select **Overlay**, then MENU/OK

– Select **Set Up Primary Overlay**, then MENU/OK

– Select **Custom Text**, then MENU/OK

– 5 custom text lines appear, select one then push MENU/OK
  Each selection allows 2 lines with 20 characters each

  You can enter all 5 custom names while you are here, or just one at a time

– Push STOP/BACK repeatedly to return to the Main Screen

Reposition Custom Text on the screen

– Push MENU/OK on control panel to access the Main Screen

– Select **Overlay**, then MENU/OK

– Select **Set Up Primary Overlay**, then MENU/OK

– Select movement you need, then
  press MENU/OK repeatedly until the title is in the
  desired location.
  Use the ▲▼ buttons to toggle between the movement choices

– Push STOP/BACK repeatedly to return to the Main Screen

Delete Custom Text on a job

– Push MENU/OK on control panel to access the Main Screen

– Select **Overlay,** then MENU/OK

– Select **Set Up Primary Overlay**, then MENU/OK

– Select **Custom Text**, then MENU/OK

– Select custom text to remove,
  then MENU/OK

– Use backspace or Delete/Back keys to delete the title, then
  MENU/OK

– Push STOP/BACK repeatedly to return to the Main Screen

Replace Custom Text with the time/date stamp

– Push MENU/OK on control panel to access the Main Screen

– Select **Overlay**, then MENU/OK

  Check that **Primary Overlay** at the top of the Overlays menu has 16 x 16 showing.

  16 x 16 is the display size of the time stamp

  ```
  = = Overlays = =
  > Primary Overlay:  16 x 16
    Set Up Primary Overlay
    Secondary Overlay
  ```

  8 x 13 will also show the stamp but very small

  None will display nothing and the following steps won't work

  Press the MENU/OK while the arrow is next to Primary Overlay to toggle between these... once it says 16x16, continue on.

– Select **Set Up Primary Overlay** (2nd menu item) then MENU/OK

– Select **Text** , then MENU/OK

– Select **^d^t** , then MENU/OK

  Time/date stamp will display with CURRENT time/date

– Push STOP/BACK repeatedly to return to the Main Screen

Find jobs with Custom Text

– Push MENU/OK on control panel to access the Main Screen

– Select **Overlay**, then MENU/OK

– Select **Set Up Primary Overlay** ,
  then MENU/OK

– Select **Custom Text**, then MENU/OK

– Choose the job you want to record that you have already named, then MENU/OK

  To display text, push MENU/OK

– Push STOP/BACK repeatedly to return to the Main Screen and continue with recording
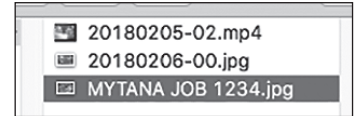
WORKING WITH CUSTOM TITLES

Entering a Custom Title

– Push MENU/OK on control panel to access the Main Screen

– Select **Overlay**, then MENU/OK

– Select **Secondary Overlay**, then MENU/OK

– Select **Title**, then MENU/OK

– Enter your title using the keyboard. If a 2nd line is needed, push MENU/OK to move cursor to the second line for typing

– Push STOP/BACK repeatedly to return to the Main Screen

Reposition Title on the screen

– Push MENU/OK on control panel to access the Main Screen

– Select **Overlay**, then MENU/OK

– Select **Title Overlay**, then MENU/OK

– Select movement you need, then press MENU/OK repeatedly until the title is in your desired location
Use the ▲▼ *buttons to toggle between the movement choices*

– Push STOP/BACK repeatedly to return to the Main Screen

Remove a Title

– Push MENU/OK on control panel to access the Main Screen

– Select **Overlay**, then MENU/OK

– Select **Title Overlay**, then MENU/OK

– Select **Edit Text**, then MENU/OK

– Use backspace or Delete/Back on the keyboard to delete the title, then MENU/OK

– Push STOP/BACK repeatedly to return to the Main Screen

CHANGE A FILE NAME

Replaces the default file name (ex: **20171116-01.mp4**) with your own text. Consider using what you use for Custom Title or Custom Text.

File names appear on your USB drive lists, or will display in Play Video Screen

– Push MENU/OK on control panel to access the Main Screen

– Select **File Management,** then MENU/OK

– Select **Rename,** then MENU/OK

– Select **Internal, External** or **Both**, then MENU/OK

– Rename files
**Important Type in .mp4 at the end of the file name for videos, or .jpg at the end of the file name for snapshots– be sure to include the . (dot)

– Press MENU/OK

– Push STOP/BACK repeatedly to return to the Main Screen

CHANGE TIME FORMAT

– Select **Overlays,** then MENU/OK

– Select **Primary Overlay,** then MENU/OK

– Select **Time Format,** then MENU/OK

– There are 7 options to choose from, Select **HH:MM AM/PM,** then MENU/OK

– Push STOP/BACK repeatedly to return to the Main Screen

Camera Care Tips *Avoid costly repairs!*

GENERAL

NEVER USE A CAMERA TO CLEAR BLOCKAGES or ram it to jump an offset. This can result in kinked or broken push-rod, or damaged camera head.

TRAPS Don't use this camera in any kind of traps. Even if a trap seems large enough, due to the tight turns involved, the camera could become lodged and incur damage.

   *Our DrainTracker is designed to go through traps.

If it's an option, consider running water to reduce push-rod friction as you push the camera through a pipe.

HOUSING

KEEP DRY Be sure to keep a camera frame or control box (both in-use and out-of-use) out of the "spray" of cable machines and jetters.

- control panels are generally water resistant, but not waterproof
- electronics housing needs venting for air circulation, so it too is not water proof
- keep reel interiors as dry as possible

Never use wet/dirty gloves when operating the controls, dirt/grit can get into the buttons.

Use care attaching the push-rod patch cord to the Control Box to avoid damaging the connection pins.

PUSH-ROD

Don't use a camera in the same line as a cable machine, the spinning cable can damage both the push-rod and camera head.

Cleanouts and entrances can be sharp; cover edges with a rag or use our Tiger Tail guide to avoid cutting the pushrod.

When pulling the camera out of the line, wipe the push-rod down with a cleaning solution on a rag.

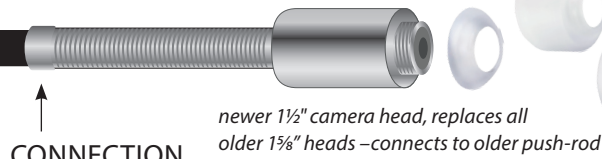When rewinding, stack the push-rod carefully into the reel to avoid kinking.

CAMERA HEAD

ALWAYS USE A POLY COVER, like our SnoBall, SlimBall or IceBall camera guides. They are integral to the functionality and protection of the camera head. Keep a cover on the camera during transport to protect the threads and the head.

At the end of the day, check the camera head for damage and signs of water ingress.

older 1⅝" camera head

newer 1½" camera head, replaces all older 1⅝" heads –connects to older push-rod

CONNECTION

For camera heads with pin connectors, we recommend keeping the head attached to the push-rod at all times to avoid accidental damage. If you need to remove, make sure to clean the push-rod around the locking nut that secures camera to push-rod. When re-attaching, keep steady pressure on the spring toward the rod to ensure that the guide pins stay securely fitted into the guide-pin holes in the front of the push-rod fitting as you tighten locking nut.

- Don't over-tighten—never use tools to tighten
- Avoid getting grime on the connection components

During transport, to avoid jarring the camera head/push-rod connection, tuck the camera head inside the reel.

GUIDES

ICEBALLS Our new camera heads accept multiple sizes of IceBalls suited for different sizes of pipes.

- Remove the small IceBall before adding a larger size.
- The 2.5" and 3" IceBalls are rounded to help jump offsets

Remove and clean the threads regularly. Not doing this can result in micro amounts of crud hardening on the threads making them difficult to remove. **Apply dielectric grease** to the threads periodically or when changing sizes.

SLIMBALL guides were included with our older 1⅝" camera head. Inspect regularly for damage and keep clean.

A SNOBALL guide is included with our 1¹⁄₁₆" mini camera head. Inspect regularly for damage, replace as needed.

MyTana   **(800) 328-8170** | **MyTana.com** | EMAIL mytana@mytana.com   ▶ youtube.com/videoMyTana

M–F | 7a to 5p CST