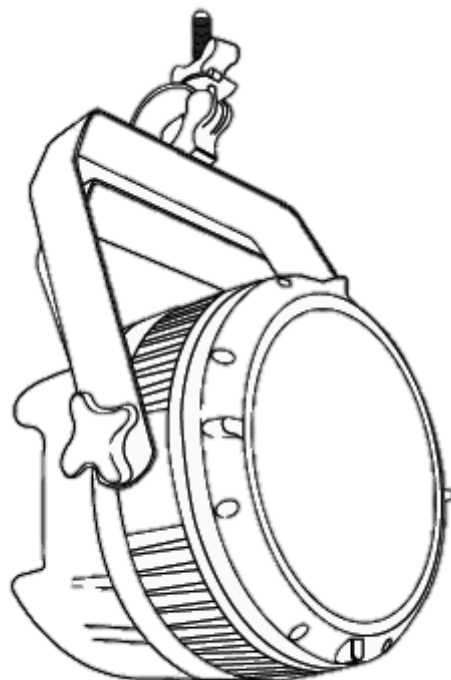


USER GUIDE WASH 3.5

Version 1.2, 04-09-2019



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1. Wash 3.5 presentation and characteristics

1.1 Description use

A WASH is an infrared transmitter that controls PixMob luminous objects wirelessly. Similar to a LED flood light, it is controllable by a lighting through DMX. The operational frequency is 20 MHz.

1.2 Electrical characteristics

1.2.1 Description

Our most powerful infrared light fixture built to flood a venue with signal. Output PixMob PRO2 protocol to control wearable devices for mass crowd effects.

1.2.2 Key features

- PixMob PRO2 architecture
- Standard professional lighting rigging yoke
- DMX512

1.2.3 Working temperature

- 20 ° to 60 °C
- 5 ° to 140 °F

1.2.4 Water protection

IP64

1.2.5 Physical and body

Length	8 in/200 mm
Width	8 in/200 mm
Height	10 in/260 mm
Weight	7.8 kg/17.5 lbs
External I/O	Power in/out Neutrik 5pol XLR in/out
Casing	Black aluminium case

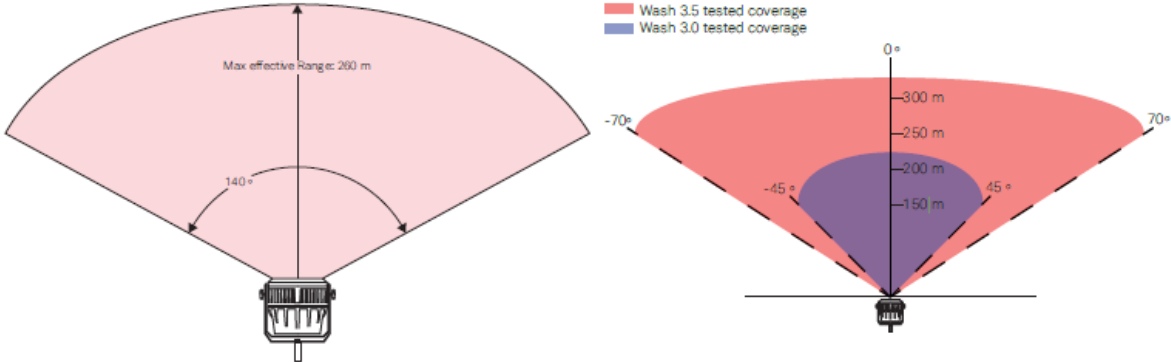
1.2.6 Electrical specs

In/out voltage	AC: 100-240 V nominal, 50/60 Hz
Max power	125 W

1.2.7 Communication protocol

PixMob PRO2 Infrared:	
IR Out	940 nm
IR Range	260 m/850 ft at 0° angle
IR Spread	140°

1.2.8 Coverage



2. FCC Statements



FCC ID: 2ADS4WASH

§ 15.19 (a)(3)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

§ 15.21

Important! Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

§ 15.105 (b)

Notes: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

3. IC Statements

IC

IC: 7254AWASH

This device complies with Industry Canada licence-exempt RSS 247 standard. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme avec Industrie Canada exempt de licence standard RSS 247. Son fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne doit pas provoquer d'interférences et (2) cet appareil doit accepter toute interférence, y compris celles pouvant causer un mauvais fonctionnement de l'appareil.

This class B digital device complies with Canadian ICES-003
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

4. Warning

4.1 Security

-Use green glass lenses when you are near a functional WASH during operating and testing. The minimum distance to be near an operation WASH without glasses is 3 ft/1 m with a direct view.

-Specifications of the green glass:

- Green Glass lenses (not tinted)
- Standard: ANSI Z87.1-2003
- Marking Z87+
- Color: Shade 3.0 IR

-Recommendation: 3M™ Nassau Rave™ Protective Eyewear 14459-00000-20 Shade 3.0 IR Lens

4.2 Label



5. Material needed

- 1 WASH power cable (P17)
- 1 DMX XLR5 pin cable
- 1 PixMob WASH (with cheeseborough clamp or c-clamp and safety cable)

6. Installation

6.1 Installation

This installation guide contains photos of WASH 3.0 but the installation is the same as WASH 3.5. Open the cheeseborough clamp or c-clamp and put the Wash on the lighting truss. Secure the Wash with the safety cable first and then fasten the cheeseborough clamp or c-clamp.

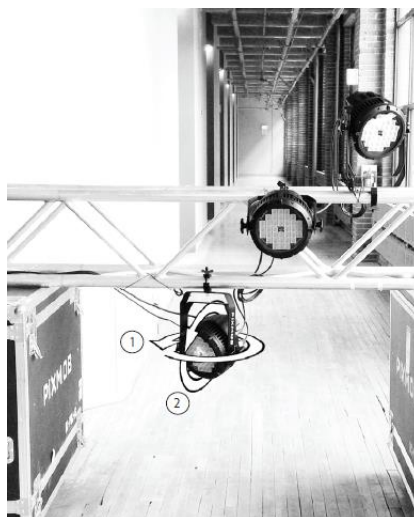


6.2 Orientation

For best coverage, it is important to orient the WASH properly. IR signals behave like normal light, so shadows, occlusion and reflections need to be considered. WASH emit IR in a cone shape with a beam angle of 70°. We recommend always thoroughly testing the coverage before any show.

You can adjust the orientation of the Wash along two axes:

1. Use the screw on the cheeseborough clamp or c-clamp to orient the beam of IR.
2. Use the yoke clamps to adjust the head of the Wash.



6.3 Connections

This picture shows the process to follow when you have more than one Wash to set up. (Daisy chain)

- For electrical reasons, do not connect more than 4 WASHs in a serie.
- All the WASHs on the same line must be connected to one dedicated DMX line in order to respect our frame rate of 15 fps.
- We recommend putting a 120 ohm DMX terminator on the DMX out on the last WASH in the line.
- We recommend putting a 25MHz ferrite on DMX and Power cable, the closest to the casing.



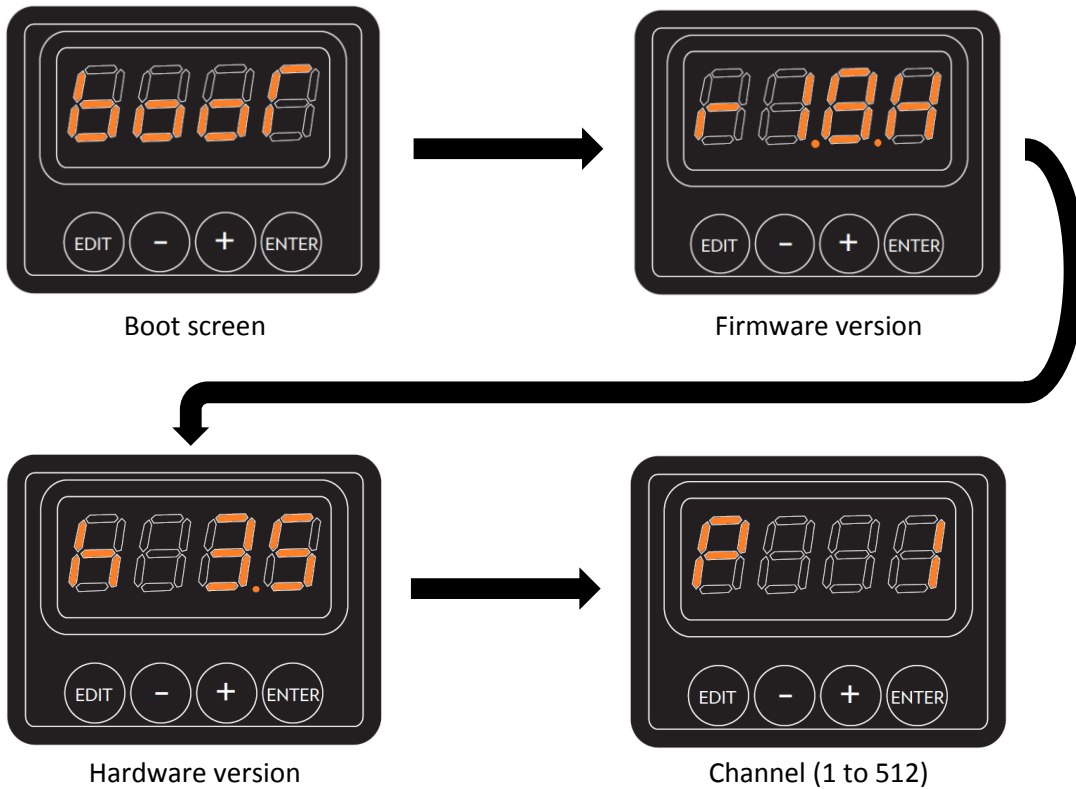
1. DMX OUT
2. POWER OUT (P17)
3. DMX IN
4. POWER IN (P17)
- T. 120 ohm DMX TERMINATOR

- Do not connect DMX over ethernet network.
- Do not connect DMX over wireless technology.

7. Wash 3.5 menu

7.1 Home screen

When the WASH 3.5 is powered up, these 4 screens show up with an interval of 1-2 seconds.



7.2 Change channel

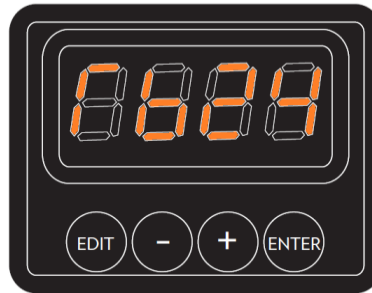
To change the channel you need to:

- Hold the EDIT button for more than 3 seconds
- Press + or - to change the channel
- Press on ENTER to select the channel

If you hold + or -, it will increase or decrease by 10. If you don't press ENTER after you select the channel, it will automatically come back to the previous menu with the previous channel.

7.3 See temperature

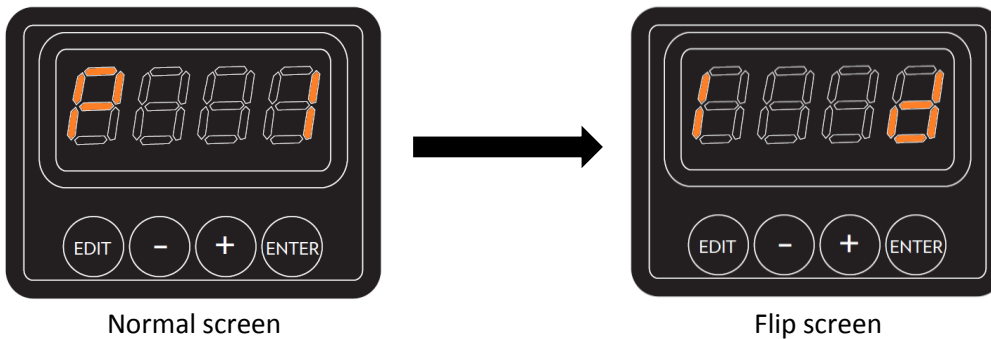
Hold EDIT and – at the same time for 3 seconds and the Temperature should appear.



tb24 means temperature 24°C

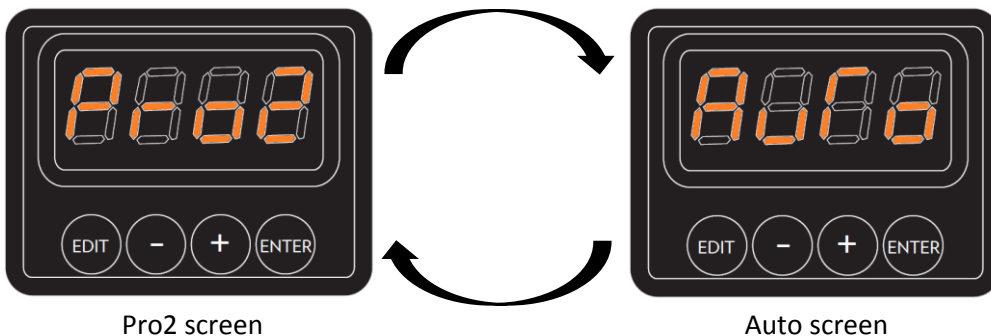
7.4 Flip screen

To flip the screen, hold + and – at the same time for 3 seconds. The screen should flip.



7.5 Change Pro2 to Auto

To change the protocol from Auto to Pro2, hold EDIT and ENTER at the same time for 3 seconds. The screen should switch from Pro2 to Auto continually. Press ENTER when you want to select.

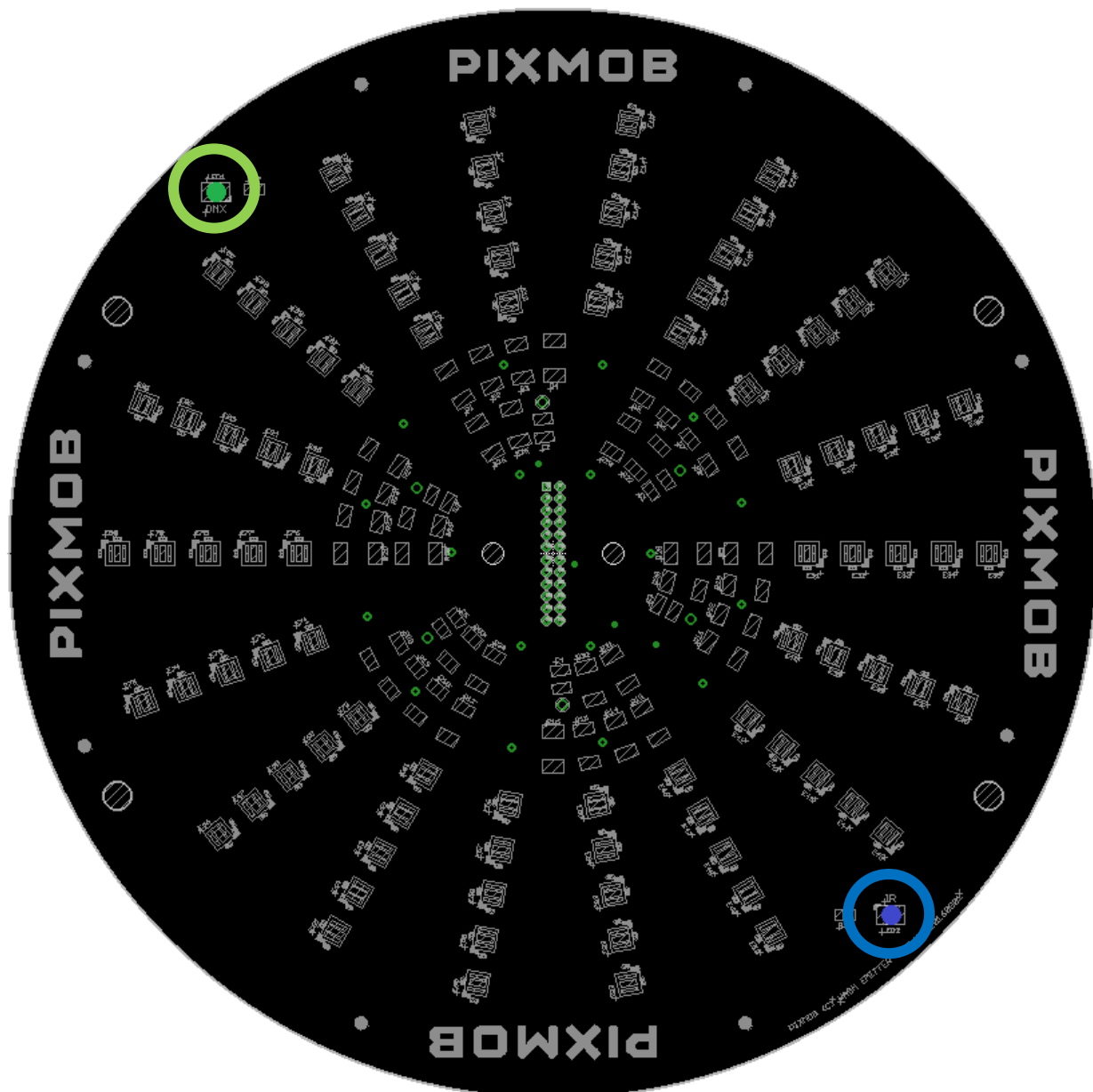


8. Troubleshooting

8.1 Front LED status indicator

Once the Wash is properly connected, you should see the two (green and blue) LED status indicator illuminate at the front of the Wash.

1. Blinking green (DMX); Receiving DMX
2. Fast blue blinking (IR); Output PixMob IR signal



8.2 Visualizing infrared

Before checking the IR LED, use the protective glasses against IR. After that, to see if all IR LED are ok you can use:

- 1- Your Android phone, open the camera and check if some IR LED are not power.

