QolorPIX®
PLUG AND PLAY PIXEL CONTROL

FAQs

QolorPIX® is pixel control, simplified. Take a look at our Frequently Asked Questions, taken from real conversations with customers, to get started with QolorPIX Pixel Controlled LED Tape and Tape Controller. If your question is not on the list, please send us an email at: sales@citytheatrical.com

QolorPIX Pixel Controlled LED Tapes

SPECS:

Q1. How much tape is on each reel of QolorPIX?
A1. 5 Meters (16.4 feet)

Q2. What are the cutting increments of the tape?
A2. You can cut the tape between each LED, or 21mm.

Q3. What is the voltage of the tape?
A3. QolorPIX tape operates at 5 volts.

Q4. How many LEDs per meter are on the tape? How many LEDs per reel?
A4. There are 48 LEDs per meter and 240 LEDs per reel.

Q5. Is the tape IP rated for outdoor use?
A5. Yes, QolorPIX Pixel Controlled LED Tape, with silicone jacket (P/N Q5050-5-RGB-48-5-67-2) is IP67 rated. As of May 2023, we also now offer QolorPIX Pixel Controlled LED Tape, unjacketed (IP20) for indoor installations (P/N Q5050-5-RGB-48-5-20-2).

Q6. What is the chipset for the tape?
A6. QolorPIX tape uses standard chipset WS2812B.

Q7. What is the part number for the tape?

A7. QolorPIX Pixel Controlled LED Tape for outdoor installations is: Q5050-5-RGB-48-5-67-2. QolorPIX for indoor installations (unjacketed) is: Q5050-5-RGB-48-5-20-2.

SET UP:

Q8. How can I mount the tape?
A8. Plastic mounting clips are included with each reel of tape.

Q9. Can I play media on the tape?
A9. Yes, since the tape uses a standard chipset, you can use it with a media server to play video or media.

Q10. What length are the extrusions for QolorPIX Tape?
A10. City Theatrical sells two different aluminum extrusions, Part# 6691 and Part #6692, which both fit QolorPIX tape. Part#6691 is 9mm high and Part# 6692 is 14mm high. They are both sold in 2 meter lengths.

Q11. Can the tape be diffused?
A11. Yes, you can diffuse QolorPIX tape. When diffused, the effects take on a completely different look. City Theatrical sells two different diffusers (Part# 6696 and Part# 6697) that fit perfectly with the extrusion Part# 6691 and Part# 6692. The diffusers are sold in 2 meter lengths.

Q12. Are there 12V and 24V versions of the tape?
A12. No, we currently only offer 5V tape.

NEXT STEPS:

Q13. Can I control every pixel on the tape?
A13. Yes, you can control every pixel up to one universe (512 slots). Although this is possible, it is quite limiting. Each pixel requires 3 slots (red, green, blue). This means an entire universe can only control 170 pixels, not a full roll.

Q14. Can I use tape that I have cut?
A14. Yes, the cut pieces of the tape can be used by soldering leads onto the copper pads.

Q15. Does City Theatrical offer different types of pixel tape?
A15. Yes. QolorPIX Pixel Controlled LED Tape (with silicone jacket) P/N Q5050-5-RGB-48-5-67-2 is encapsulated in clear rectangular silicone tubing making it IP67 rated, for oudoor installations. QolorPIX Pixel Controlled LED Tape (unjacketed pixel tape only) P/N Q5050-5-RGB-48-5-20-2 is IP20 rated and meant for indoor installations. Both types of tape have 48 LEDs per meter, 5 meters in length, black backing, 4pin XLR connector on one end, and use chipset WS2812B. uses chipset WS2812B.)

Q16. Can I extend the reels?
A16. No. If you are using the QolorPIX Pixel Controlled LED Tape with City Theatrical's QolorPIX Tape Controller, you should not extend the reel beyond 5 meters (240 LEDs) since each port on the Tape Controller can only drive one reel of tape.

QolorPIX Tape Controller

SPECS:

Q1. What is the total wattage of the controller?
A1. 600W

Q2. Can I control each output port on the controller?
A2. Yes, each output port of the Tape Controller can be set up separately to run different effects.

Q3. How many reels can you attach to each port?
A3. You can run a maximum of 5 meters of tape from each port of the controller.

Q4. Can I use other brands of tape with the controller?
A4. Yes, you can as long as the specs are the same. (The tape uses chipset WS2812B, you can add a 4Pin XLR connector to the tape, the tape is RGB, and it's a 5VDC tape.) The controller can control up to 240 pixels per port.

Q5. Is the controller IP rated for outdoor use?
A5. No, the QolorPIX Tape Controller is not rated for outdoor use.

Q6. Is an external power supply required for the controller?
A6. No, it includes an onboard 600W power supply with fan.

Q7. Is the controller class 2?
A7. No, it does not qualify as a class 2 device.

Q8. What is the part number for the controller?

A8. 5850

SET UP:

Q9. How can I mount the controller?
A9. The Tape Controller has feet with screw holes so it can be directly mounted to surfaces. It also comes with metal ears that can be used for rack mounting or hanging with c-clamps.

Q10. Can I play media through the controller, or program effects on a media server and play them through it?
A10. No, the controller is not a media server and will not play media. You cannot take a program generated from another media device and play it on the controller.

Q11. Does the controller have presets? How many?
A11. Yes, the controller offers 4 presets. Presets can be reset to Factory Default using the menu. (To unlock the controller's screen, simultaneously press the up and down arrow on the control menu.)

Q12. Can I put an extension between the controller and the tape? At what distance?
A12. Yes, you can use cable to extend the distance between the Tape Controller and the tape. Standard 4 pin (scroller) cable will work well since there are 4Pin XLR connectors on the tape and Tape Controller and they are designed for handling power and data. The extension cables should not be longer than 30 feet.

Q13. Can I daisy chain controllers together?
A13. Yes, you can daisy chain power from one controller to the next using the True-con pass thru, to a maximum of 3 units. You can pass through DMX from one controller to another, but effects will not transfer between devices.

NEXT STEPS:

Q14. Is the controller wireless DMX?
A14. Yes, it has a Multiverse chip inside.

Q15. Does the controller have RDM?
A15. Yes, the controller has full RDM implementation through both wired DMX and wireless Multiverse control.

Q16. Does the controller take sACN or Artnet?
A16. No, the controller can only be controlled by wired DMX or a Multiverse wireless system.

Q17. Do I need DMX present to set up an effect?
A17. No, you can program effects for each preset using the user interface on the controller.

Q18. How many control channels are used to make effects?
A18. All effects can be generated using 16 channels of control. By using 32 channels, you can layer effects.

Q19. How many effects can I make with the controller?
A19. There is a base of 24 effects. By altering the color(s) size, speed, density and direction of these base effects, you can create thousands of variations.

Q20. Will the controller hold last look if DMX signal is lost?
A20. Yes, the QolorPIX Tape Controller will hold last look, and continue running the last effect programmed.

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