Ronin-S Camera Compatibility List

2020.06.10 (for gimbal firmware v 2.3.1.20)

The camera and lens combinations listed below can be physically balanced and stabilized on the Ronin-S. The Control Feature column indicates camera features that can be accessed by the gimbal and app. Cameras and lenses similar in size and weight may be compatible, but will not be listed until official verification by DJI. This list will be updated as more camera and lens setups are tested and verified.

Brand	Model	Cable*	Control Feature	Camera Setup Method	Camera Firmware Version	Updates in Next Firmware	Compatible Lenses
Canon	6D MK II	RSS-IR (in the box) MCC-Mini (optional)	When using RSS-IR: Start/stop recording video Capture photo When using MCC-Mini: Start/stop recording video Capture photo Pull focus electronically Trigger auto focus	When using RSS-IR: Please switch to Self-timer mode and ensure Bluetooth is turned off When using MCC- Mini: 1. Due to various lens focus control mechanisms, when using the Ronin-S to pull focus, you may need to switch the lens between AF and MF to see which best fits your need. 2. When switched to Photo mode, the camera won't respond to video-capturing commands; when switched to video mode, the camera won't respond to photo-capturing commands. 3. The camera's AF Servo should be shut off when pulling focus.	v1.0.3	/	EF 8-15mm f/4L USM EF 11-24mm f/4L USM EF 16-35mm f/2.8L III USM EF 16-35mm f/4L IS USM EF 17-40mm f/4L USM EF 24-70mm f/2.8L II USM EF 24-70mm f/4L IS USM EF 24-105mm f/4L IS II USM EF 24-105mm f/3.5-5.6 IS STM EF 35mm f/1.4L II USM EF 50mm f/1.2L USM EF 85mm f/1.2L II USM EF 85mm f/1.4L IS USM EF 85mm f/1.8 USM
	5D MK III			When using RSS-IR: Please switch to Self-timer mode When using MCC- Mini: 1. Due to various lens focus control mechanisms, when using the Ronin-S to pull focus, you may need to switch the lens between AF and MF to see which best fits your need. 2. When switched to Photo mode, the camera won't respond to video-capturing commands; when switched to video mode, the camera won't respond to photo-capturing commands.	v1.3.5	/	
	5D MK IV	RSS-IR (in the box) MCC-B (in the box)	When using RSS-IR: Start/stop recording video Capture photo When using MCC-B: Start/stop recording video Capture photo Pull focus electronically Trigger auto focus	When using RSS-IR: Please switch to Self-timer mode When using MCC-B: 1. Due to various lens focus control mechanisms, when using the Ronin-S to pull focus, you may need to switch the lens between AF and MF to see which best fits your need. 2. The camera's AF Servo should be shut off when pulling focus. 3. When switched to Photo mode, the camera won't respond to video-capturing commands; when switched to video mode, the camera won't respond to photo-capturing commands.	v1.1.2	/	
	EOS-1D X Mark II	MCC-B (in the box)		1. Due to various lens focus control mechanisms, when using the Ronin-S to pull focus, you may need to switch the lens between AF and MF to see which best fits your need. 2. When switched to Photo mode, the camera won't respond to video-capturing commands; when switched to video mode, the camera won't respond to photo-capturing commands.	v1.1.3	/	
	EOS R	MCC-C (in the box)	Start/stop recording video Capture photo Pull focus electronically Trigger auto focus	1. Due to various lens focus control mechanisms, when using the Ronin-SC to pull focus, you may need to set camera focus mode to AF. 2. When switched to Photo mode, the camera won't respond to video-capturing commands; when switched to video mode, the camera won't respond to photo-capturing commands. 3. Using adapter with EF lenses will increase the latency of focus.	v1.2.0	/	RF50mm F1.2 L USM RF28-70mm F2 L USM RF24-105mm F4 L IS USM RF35mm F1.8 MACRO IS STM
	EOS RP				v1.1.0	/	
	EOS M6 Mark II			/	v1.0.0	/	/
	EOS M50	MCC-B (in the box)	Start/stop recording video Capture photo Pull focus electronically Trigger auto focus	The HDMI OUT terminal and digital terminal on the Canon EOS M50 are close together. As a result, it may not be possible to attach cables to both terminals at the same time. In that case, you may not be able to use the monitor.	v1.0.2	/	
	EOS 6D	RSS-IR (in the box) MCC-Mini(optional)	When using RSS-IR: Start/stop recording video Capture photo When using MCC-Mini: Start/stop recording video Capture photo Pull focus electronically Trigger auto focus	When using RSS-IR: Please switch to Self-timer mode and ensure Bluetooth is turned off. When using MCC- Mini: 1. Due to various lens focus control mechanisms, when using the Ronin-S to pull focus, you may need to switch the lens between AF and MF to see which best fits your need. 2. When switched to Photo mode, the camera won't respond to video-capturing commands; when switched to video mode, the camera won't respond to photo-capturing commands.	v1.1.4	/	EF 8-15mm f/4L USM EF 11-24mm f/4L USM EF 16-35mm f/2.8L III USM EF 16-35mm f/4L IS USM EF 17-40mm f/4L USM EF 24-70mm f/2.8L II USM EF 24-70mm f/4L IS USM EF 24-105mm f/4L IS II USM EF 24-105mm f/3.5-5.6 IS STM EF 35mm f/1.4L II USM EF 50mm f/1.2L USM EF 85mm f/1.2L II USM EF 85mm f/1.4L IS USM EF 85mm f/1.8 USM
	EOS 80D				v1.0.1	/	
	EOS 90D	MCC-B (in the box)	Start/stop recording video Capture photo Pull focus electronically Trigger auto focus	1. The focus speed should be set to lower than 10 when using the focus pull. 2. When switched to Photo mode, the camera won't respond to video-capturing commands; when switched to video mode, the camera won't respond to photo-capturing commands.	v1.0.0	/	
	EOS 800D	MCC-Mini (optional)			/	/	
	EOS 77D	MCC-Mini (optional)			v1.0.2	/	
	EOS 70D	MCC-Mini (optional)		When switched to Photo mode, the camera won't respond to video-capturing commands; when switched to video mode, the camera won't respond to photo-capturing commands.	v1.1.2	/	
	EOS 200D	MCC-Mini(optional)		1. Due to various lens focus control mechanisms, when using the Ronin-S to pull focus, you may need to switch the lens between AF and MF to see which best fits your need. 2. When switched to Photo mode, the camera won't respond to video-capturing commands; when switched to video mode, the camera won't respond to photo-capturing commands.	v1.0.1	/	
Panasonic	GH3	RSS-P (optional)	Start/stop recording video Capture photo Trigger auto focus	RSS-P cable may not be used due to the space limitation when using small lens with GH4.	v1.1	/	H-E08018GK H-HSA35100GK H-HSA12035GK FSA45200GK H-ES12060GK H-X012GK H-FS12060GK H-H025GK H-X015GK H-HS030GK
	GH4				v2.6		
	GH5/GH5s	MCC-C (in the box)	Start/stop recording video Capture photo Pull focus electronically Trigger auto focus	1. Choose PC (Tether) mode upon connection; 2. To pull focus with Ronin-S, the focus mode toggle on the camera should be set to MF; 3. To trigger camera's auto focus, half press the Camera Control button on the gimbal and ensure the camera's focus mode is set to AFS/AFF/AFC.	GH5: v2.2 GH5s: v1.1	Resolve camera freeze issue occurs when the camera is in playback mode	
	S1	MCC-C (in the box)	Capture photo Start/stop recording video Pull focus electronically Trigger auto focus	/	v1.2	/	S-R24105GK S-X50GK
	S1H			To pull focus with Ronin-S, the focus mode toggle on the camera should be set to MF.	v0.53	/	

Brand	Model	Cable	Supported Functions	Notes	Version		Lenses
Panasonic	G95	RSS-P (optional)	Capture photo Start/stop recording video Trigger auto focus	1. RSS-P cable may affect the gimbal movements due to the space limitation when using the G95 camera with a small lens.	v1.1	/	H-E08018GK H-HSA35100GK H-HSA12035GK
	G9	MCC-B (in the box)	Capture photo Start/stop recording video Pull focus electronically Trigger auto focus	1. Choose PC (Tether) mode upon connection. 2. To pull focus with Ronin-S, the focus mode toggle on the camera should be set to MF. 3. To trigger camera's auto focus, half press the Camera Control button on the gimbal and ensure the camera's focus mode is set to AFS/AFF/AFC.	v1.0	/	FSA45200GK H-ES12060GK H-X012GK H-FS12060GK H-H025GK H-X015GK H-HS030GK
Nikon	D850	MCC-B (in the box)	Start/stop recording video Capture photo Pull focus electronically Trigger auto focus	1. Please ensure live view on camera stays on when used with Ronin-S. 2. To pull focus with Ronin-S, please set the lens focus mode to M/A, and make sure the camera focus mode is set to AF. 3. Gimbal's range of motion might be restricted when a longer lens is mounted, please setup the gimbal's control Endpoints and SmoothTrack parameters to avoid unintentional collision of equipments.	v1.00	/	AF-S NIKKOR 14-24mm f/2.8G ED AF-S NIKKOR 16-35mm f/4G ED VR AF-S Zoom-NIKKOR 17-35mm f/2.8D IF-ED AF-S NIKKOR 18-35mm f/3.5-4.5G ED AF-S NIKKOR 24-70mm f/2.8E ED VR AF-S NIKKOR 24-70mm f/2.8G ED AF Zoom-NIKKOR 24-85mm f/2.8-4D IF AF-S NIKKOR 24-85mm f/3.5-4.5G ED VR AF-S NIKKOR 24-120mm f/4G ED VR
	D5				v1.21	/	AF-S NIKKOR 28-300mm f/3.5-5.6G ED VR AF NIKKOR 14mm f/2.8D ED AF-S NIKKOR 20mm f/1.8G ED AF-S NIKKOR 24mm f/1.4G ED AF-S NIKKOR 24mm f/1.8G ED AF-S NIKKOR 50mm f/1.4G AF-S NIKKOR 85mm f/1.4G AF-S NIKKOR 85mm f/1.8G
	D810	MCC-B (in the box)	Due to the limit of D810 camera software, users can only take photos and record videos when the camera screen is blank.	The camera screen is blank after connecting the camera control cable. The monitor screen is also blank when connecting the HDMI cable.	v1.12	/	/
	Z6	MCC-C (in the box)	Start/stop recording video Capture photo Pull focus electronically Trigger auto focus	1. To pull focus with Ronin-S, set the lens focus mode to A, and make sure the camera focus mode is set to AF-S/AF-C. 2. Ensure live view on camera stays on when used with Ronin-S. 3. Gimbal's range of motion might be restricted when a longer lens is mounted, please setup the gimbal's control Endpoints and SmoothTrack parameters to avoid unintentional collision of equipments.	v1.00	/	NIKKOR Z 24-70mm f/4S NIKKOR Z 50mm f/1.8S NIKKOR Z 35mm f/1.8S NIKKOR Z DX 50-250mm f/4.5-6.3 VR NIKKOR Z DX 16-50mm f/3.5-6.3 VR
	Z7				v 1.01	/	
	Z50	MCC- B (in the box)			v1.00	/	
FUJIFILM	X-T3	MCC-C (in the box)	Capture photo Trigger auto focus Pull focus electronically Start/stop recording video	1. Set PC connection mode to "USB Auto Mode." 2. The camera buttons' functions are not supported during the connection. To use the camera buttons' functions, make sure the gimbal is in sleep mode. 3. Note that the camera is unable to auto focus in video recording mode.	v3.10	/	XF 16mm 1:1.4 R WR XF 23mm 1:1.4 R XF 35mm 1:1.4 XF 10-24mm f/4.0 R OIS XF 16-55mm 1:2.8 R LM WR XF 18-55mm 1:2.8-4 R OIS XF 18-135mm f/3.5-5.6 R LM OIS WR
	X-T4				v1.00	/	
	X-T2	MCC-B(in the box)	Capture photo Trigger auto focus	1. Set PC connection mode to "USB Auto Mode." 2. The camera buttons' functions are not supported during the connection. To use the camera buttons' functions, make sure the gimbal is in sleep mode.	/	/	
Sony	A7 S	RSS-IR (in the box) MCC-Multi (optional)	When using RSS-IR: Start/stop recording video Capture photo When using MCC-Multi: Start/stop recording video Capture photo Zoom control (digital or optical) Trigger auto focus When using MCC-B: Start/stop recording video Pull focus electronically Trigger auto focus When using MCC-C: Start/stop recording video Pull focus electronically Trigger auto focus	**When using RSS-IR:** 1. Please turn on the Remote function in camera; 2. When using Create features, please turn off Auto Review to enhance camera operating efficiency. **When using MCC-Multi:** 1. After connecting the cable, be sure to power on the Ronin-S before the camera. Otherwise, the Ronin-S does not recognize the camera. If the camera is not recognized, restart the camera or remove and reconnect the cable to the camera. 2. The optical zoom can be controlled through the Ronin-S Focus Wheel (only lenses with built-in power zoom, such as the Sony E PZ 18-105 mm F4 G OSS). If a non-Power Zoom lens is mounted, the Focus Wheel will control digital zoom. Digital zoom must be enabled in your camera's settings. 3. After connecting with a Sony camera using the MCC-Multi cable, if you need to swap to a camera of other manufacturers then a gimbal reboot is required. **When using MCC-B:** 1. Set the camera to MF mode. 2. Select "Network" and then turn off "Ctrl w/ Smartphone". 3. Enable PC remote in the camera settings. 4. The Optical Image Stabilization of the camera will be disabled when using MCC-B cable, but the OIS of the lens will not be affected. 5. When using the focus control electronically, if the lens has AF/MF modes, set it to AF mode, otherwise the electronic focus control function cannot be used. **When using MCC-C:** 1. Set the camera to MF mode. 2. Select "Network" and then turn off "Ctrl w/ Smartphone". 3. Enable PC remote in the camera settings. 4. The Optical Image Stabilization of the camera will be disabled when using MCC-C cable, but the OIS of the lens will not be affected. 5. When using the focus control electronically, if the lens has AF/MF modes, set it to AF mode, otherwise the electronic focus control function cannot be used.	v3.20	/	FE 16-35mm F2.8 GM FE 12-24mm F4 G FE 85mm F1.8 FE 24-70 mm F2.8 GM FE 28 mm F2 Distagon T* FE 35 mm F1.4 ZA Sonnar T* FE 35 mm F2.8 ZA Planar T* FE 50mm F1.4 ZA FE 50mm F1.8 Sonnar® T* FE 55 mm F1.8 ZA FE 85 mm F1.4 GM FE 24–105 mm F4 G OSS FE 100mm F2.8 STF GM OSS Vario-Tessar T* FE 16–35 mm F4 ZA OSS Vario-Tessar T* FE 24-70 mm F4 ZA OSS FE 28-70 mm F3.5-5.6 OSS FE 90 mm F2.8 Macro G OSS
	A7 II				v4.00	/	
	A7S II				v3.00	/	
	A7 RII				v4.00	/	
	A7 III	RSS-IR (in the box) MCC-Multi (optional) MCC-C (in the box)			v1.01	/	
	A7R III				v1.10	/	
	A7R IV	MCC-Multi (optional) MCC-C (in the box)			v1.00	/	
	A9	MCC-Multi(optional) MCC-B (in the box) RSS-IR(in the box)			v5.00	/	
	A6400				v1.00	/	Sonnar® T* E 24 mm F1.8 ZA E 18-135mm F3.5-5.6 OSS E 18–200 mm F3.5–6.3 OSS LE Vario-Tessar T* E 16-70 mm F4 ZA OSS E PZ 18–105 mm F4 G OSS
	A6000	RSS-IR (in the box) MCC-Multi (optional)			v3.20	/	
	A6300				v1.10	/	
	A6500				v1.05	/	
	a6600	MCC-Multi(optional)	When using MCC-Multi: Start/stop recording video Capture photo Zoom control (digital or optical) Trigger auto focus		/	/	
	a6100				/	/	
Blackmagicdesign	BMPCC 4K	Not support	Not support	Two scenarios where the camera must be balanced: 1. After installing a camera cage. 2. After mounting a camera riser.	/	/	OLYMPUS 7-14mm 1:2.8 OLYMPUS 12-40mm 1:2.8 Panasonic 12-35mm F2.8

The camera and lens combinations listed below can be physically balanced and stabilized on the Ronin-S. We will continuously look into possibilities of bringing more features to more camera models.

Brand	Model	Follow-up Development Plan
Canon	60D, 7D series	Continue improving RSS-IR cable reliability; Developing USB shutter control to more camera models
Sony	A7 series	Improving RSS-IR cable reliability; Developing USB shutter control

Brand	Model	Follow-up Development Plan
Nikon	D7500, D500, D800, D810A, D3, D300, D300S, D3S, D3X, D4, D4S, D600, D610, D700	Developing USB shutter control
	D5000, D5100, D5200, D5300, D5500, D7000, D7100, D7200, D750, D90, Df	Developing IR shutter control
Hasselblad	X1D	Developing USB shutter control

* For Ronin-S Standard Kit only.

⚠ • Certain camera models will slow down its focus process in low-light conditions; we recommend using manual focus when a Create feature is used.
   • Please turn off Auto Review (Sony) or Image Review (Canon) when used with a Create feature.