



FOXTECH Map-A7R II Full-Frame Mapping Camera User Manual

[Home](#) » [FOXTECH](#) » FOXTECH Map-A7R II Full-Frame Mapping Camera User Manual 



Map-A7R II Full-Frame
Mapping Camera
User Manual
V1.0 2021.12



Contents

- [1 Description](#)
- [2 Specification](#)
- [3 Interface Definition](#)
- [4 Camera Shutter Setting](#)
- [5 Documents / Resources](#)
 - [5.1 References](#)
- [6 Related Posts](#)

Description

Disclaimer

Thank you for purchasing this product. You can log in to the website for the latest product information, technical support, and user manual. It is recommended that you download and use the latest version of the user manual. This manual is subject to change without notice.

You can also get product usage information or technical support through official customer service. Due to different production batches, the appearance or function parameters are slightly different and will not affect the normal use of the product.

Please read this statement carefully before using it. Once used, it is deemed to be an endorsement and acceptance of the entire contents of this statement. Please read the instruction manual carefully and strictly follow the instructions in this manual to use this product. Foxtech will not be liable for any result or loss caused by improper

use, installation, assembly, or modification of users.

Intellectual Property

The intellectual property rights of this product and manual are owned by Foxtech. Any organization or individual may not copy, reproduce or distribute in any form without written permission. If you need to quote, you need to indicate the source, and you should not make any modifications, deletions or references to this manual.

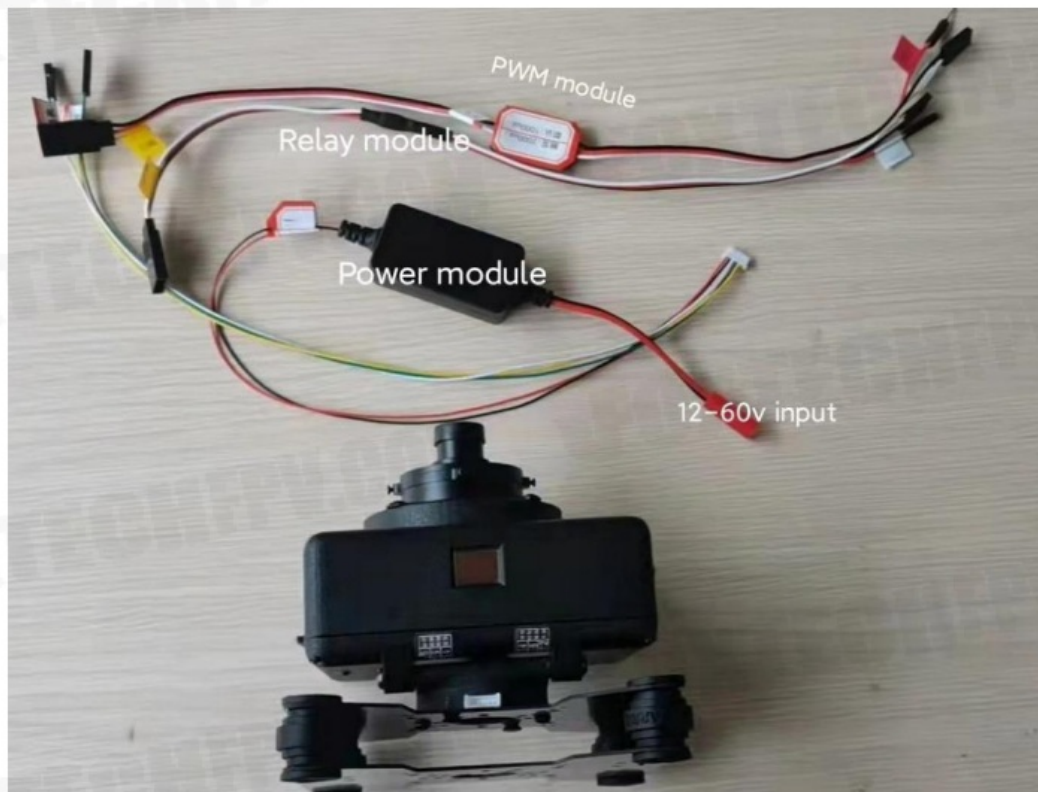
Specification

Product	A7R II
Pixels	42.2 megapixels
pixel size	4.5um
Minimum exposure time	0.8s
Sensor size	35.8*23.9mm
Hot shoes for PPK	Support
Image size(pixels)	7952*5304
Shutter speed	30-1/8000
Size	95mm*75mm*43mm
Lens	35mm/40mm/56mm
Power	7.2-8.6V
weight	219g(Standard),234g(PSDK)
Parameter Setting	Button/USB
Date reading	USB/SD card

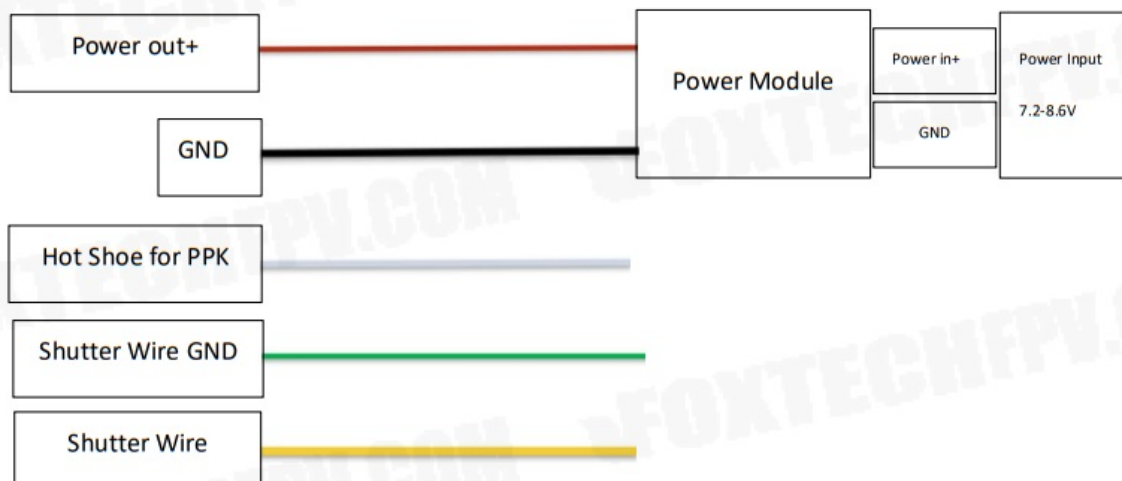
Interface Definition



	Description		Description
1	POS Card	5	Setting
2	Screen	6	HDMI/USB
3	Skyport	7	SD Card
4	Restart/Save	8	Menu

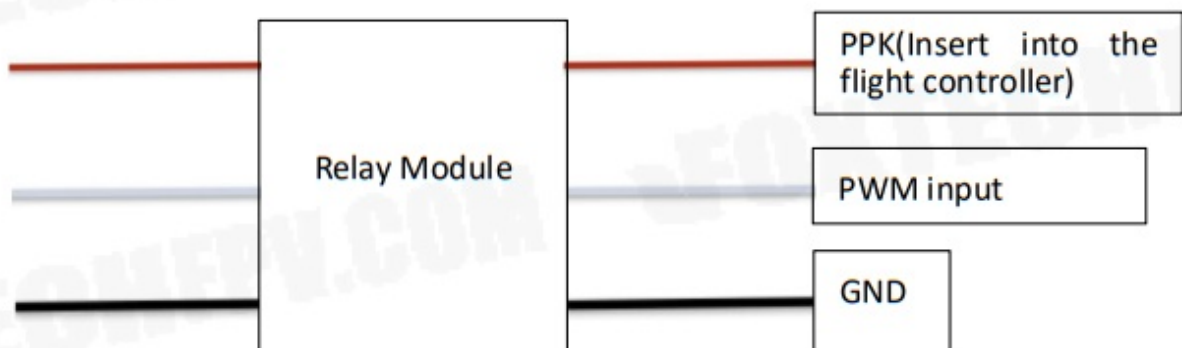


Manually shooting key





PWM module



Operating Instructions

1. The camera will take a picture automatically, then it can be used via flight controller or manually.
2. If the memory card is used for the first time. After the camera self-check, insert the memory card into the camera and click the "OK" button to format, then it can be used normally.
3. When debugging the camera, it is recommended to connect the camera to the monitor or TV using an HDMI wire. Camera Shutter Setting

Camera Shutter Setting

Triggered by Relay

1. Connect the shutter release cable to AUX OUT 5 on the flight controller. If there is no PPK module, connect the

PPK cable to AUX OUT 6 on the flight controller.

2. Connect the flight controller to the computer using USB or other data links and open the mission planner.
3. Proceed to the CONFIG > FULL PARAMETER LIST and locate the CAM_TRIGG_TYPE parameter. This parameter must show as "1". If it is not set to 1, change this parameter to 1 before proceeding to the next step.

CAM_TRIGGER_TYPE	1	0.5s on 1 Relay 2 GoPro in Solo Simul	how to trigger the camera to take a picture	
------------------	---	---------------------------------------	---	--

4. Locate the BRD_PWM_COUNT parameter in the same category, and set it to “4”, meaning that only the top four AUX ports will emit a PWM signal.

[illegible]

5. Locate the RELAY_PIN in the same category and set its value to “54” which means the shutter release cable connects to the flight controller via AUX OUT 5.

[illegible]

6. Locate the `CAM_FEEDBACK_PIN` parameter in the same category, and set it to “55”, which means the PPK module connects to the flight controller via AUX OUT 6.

CAM_FEEDBACK_PIN	95	1 Disabled SIGNAL SIGNAL SIGNAL SIGNAL SIGNAL SIGNAL SIGNAL	pin number to use for some accurate camera feedback messages. If set to 1 then don't use a pin flag for this, otherwise this is a pin number which I test high when a picture trigger occurs, will save camera messages when camera really takes a picture. A universal camera hot shoe is needed. The pin should be held high at least 2 milliseconds for reliable image detection. See also the CAM_FEEDBACK_PUL option.	
------------------	----	---	--	--

Triggered by PWM signal

1. Connect the shutter release cable to AUX OUT 5 on the flight controller. If there is no PPK module, connect the PPK cable to AUX OUT 6 on the flight controller.
2. Connect the flight controller to the computer using USB or other data links and open the mission planner.
3. Proceed to the CONFIG > FULL PARAMETER LIST and reset these four parameters:

[illegible]

4. Set the value of BRD_PWM_COUNT in the same category to “5”, meaning that only the top five AUX ports will emit a PWM signal.

BRD_PWM_COUNT	5	
---------------	---	--

5. Locate the `SERVO13_FUNCTION` in the same category and set its value to “10” which means the shutter release cable connects to the flight controller 13 port.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
CONSOLE OUTPUT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

6. Locate the `CAM_FEEDBACK_PIN` parameter in the same category, and set it to “55”, which means the PPK module connects to the flight controller via AUX OUT 6.

CAM_FEEDBACK_PIN	00	1: Enabled SEARCH, SLALOG, SEARCH, SEARCH SEARCH, SLALOG	pin number to use for save camera feedback messages. If set to -1 then don't use a pin tag for this, otherwise this is a pin number which if held high also pushes trigger video. will save camera messages when camera mode takes a picture. A external camera that does it needed. The pin should be held high at all times. If you want to use this pin, set CAM_FEEDBACK_PIN to 00.
------------------	----	---	---

The setting camera on APP and PC

<https://helpguide.sony.net/ilc/1520/v1/en/index.html>

Imaging Edge Mobile for Android

[https://www.foxtechfpv.com/product/cameras/map-a7r-2/imaging edge mobile 7.6.0.apk](https://www.foxtechfpv.com/product/cameras/map-a7r-2/imaging%20edge%20mobile%207.6.0.apk)

Please download Imaging Edge Mobile(for IOS) in APP Store.

This content is subject to change.

Download the latest version from

<https://www.foxtechfpv.com/foxtech-map-a7r-ii-full-frame-mapping-camera.html>


For everyday updates, please follow

Foxttech Facebook page: <https://www.facebook.com/foxtechhobby>

YouTube Channel: https://www.youtube.com/user/foxtechonline/featured?view_as=subscribe

©2021 FOXTECH All Rights Reserved

Documents / Resources

	<p>FOXTECH Map-A7R II Full-Frame Mapping Camera [pdf] User Manual Map-A7R II, Full-Frame Mapping Camera, Map-A7R II Full-Frame Mapping Camera</p>
---	---

References

- [🌐 Help Guide | Top](#)
- [📺 Foxttech Map-A7R II Full-Frame Camera for UAV Survey and Mapping](#)

[Manuals+](#).