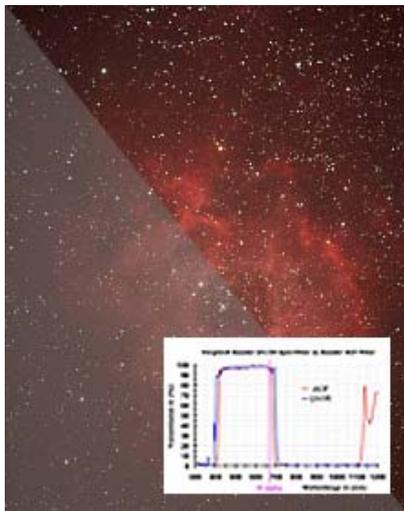


BAADER PLANETARIUM

GmbH

Baader Astrougrade Service for Canon DSLR Cameras



Baader Astrougrade Service for Canon DSLR Cameras

Please understand, that we can offer Camera modifications only in Germany and all EU countries.

- * [Single filters for self modification for Canon 1000D-1100D, 300D-600D, 10D-60D, 7D, 5D MKII](#)
- * [Astrougrade Service for DSLR's from Canon, Canon 1000D-1100D, 300D-600D, 10D-60D, 7D, 5D, 5D MKII](#)

Please read - [before sending a Camera to us](#) - our guidelines

[Remarks to](#) - [without having talked with us](#) - already sent in Cameras, being opened or software modified before

[Frequently asked questions](#) and our answers about DSLR modifications



[back to Baader Home](#)



[Single Baader ACF/BCF Filters](#) for do it yourself modifications (only german version of this page available)

- * [Customer references to our modification service](#)
- * [Frequently asked Questions](#)



[German version of this page](#)



[additional test images](#), taken with a BCF modified Canon EOS 40 D and a Zeiss APQ Refractor



[Test Images](#) taken with direct comparison between a BCF filter modified and an unmodified Canon EOS 40D



... before irrevocably converting your DSLR into astro we would like to draw your attention to:

NightScape 'Single Shot' colorcamera from Celestron - **THE real alternative** to a DSLR solution, ideal for beginners, yet professional features like cooler and AstroFX software. **Interested?** [Then follow this link](#)

STF-8300 astro-CCD from SBIG in monochrome or color - **THE choice for** state of the art astrophotography up to the limit. **Interested?** [Then follow this link](#)

Baader single filters and modification service for Canon EOS Cameras

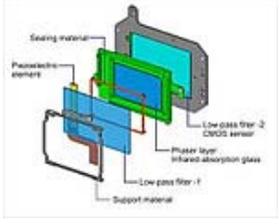
Baader BCF-Filter # 2459213, eingebaut in EOS 40 D
(das ausgebaute Originalfilter steht zum Vergleich vor der Kamera)
Copyright: Baader Planetarium 2007
(do not use this image without our authorization)

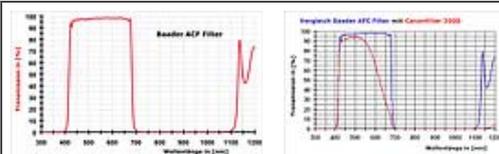


From Canon EOS 5D MKII, 40D, 450D, 1000D on:

Live View has eased the Astrophotography dramatically.

The Cameras with Live View do not stand behind the older models. The dark current is even lower, there is real 14 bit operation and full USB 2.0 support with real time PC remote control.

Click thumbnail to see larger image	article	Order - number	Price inkl. VAT
	Baader ACF1 Filter for CANON 300 D	245 9211 	EUR 75.-#
 	Baader ACF2 Filter for CANON 10D / 20D / 30D / 350D	245 9212 	EUR 85.-#
	Baader BCF H-alpha Intensifier Filter for CANON 1000D - 1100D, 400D - 600D, 40D - 60D, 7D	245 9213 	EUR 65.-#
	Baader BCF2 H-alpha Intensifier Filter for CANON 5D MKII	245 9214 A 	EUR 78.-#
<p>BCF Filter for do it yourself modifications of EOS 1000D-1100D/400D-600D/40D-60D/7D und 5D MKII</p> <p>These filters allow to keep the dust removal function of the cameras intact. Only the frontfilter has to be changed, the piezo stays intact.</p> <p>However there are high demands for the BCF-filter in terms of multicoating and keeping the precise thickness, the filterglas is optically polished. We adapted our filters to 1/100 mm to the original Canon ones. Take caution, these filters are only 0,5mm thick and therefore very sensitive.</p> <p># additional shipping costs</p>			



transmission curve
Baader BCF Filter

T transmission curve
comparrison between
Canon Original to
Baader BCF

The left graph shows the transmission of the Baader ACF- and BCF filters. The right graph shows a comparison between the Baader ACF- and BCF filters (blue line) and the original EOS

350D filter (red line). Inside the big sized version we marked the H-alpha line for showing why a filterexchange enhances the H-alpha sensitivity so much.

 page top

Baader Astrougrade Service for Canon DSLR Cameras

Important note:

The CANON-warranty for the Cameras will hold even after modification, if repair claims will be carried out via BAADER PLANETARIUM GmbH.

Baader Planetarium Astrougrade Service for CANON DSLR-Kameras 1000D-1100D, 300D-600D, 10D-60D, 7D und 5D-5D MII - we modify your DSLR-EOS-Camera to ACF/BCF Astro !

 [starten](#) pdf-file with remarks on the conversion of a Canon DSLR Camera with our BAADER ACF filters into a real Astro DSLR.

<p>Canon EOS 1000D - 1100D / 400D - 600D / 40D - 60D / 7D Astro-Upgrade with Baader-Filter (needed Filter BCF #2459213)</p> <p>Please read this remarks BEFORE sending a camera to Baader Planetarium.</p>	<p>900 2226</p> <p></p>	<p>EUR 275.-</p>
<p>Canon EOS 300D Astro-Upgrade with Baader-Filter (needed Filter ACF1 #2459211)</p> <p>Please read this remarks BEFORE sending a camera to Baader Planetarium.</p>	<p>900 2227</p> <p></p>	<p>EUR 235.-</p>
<p>Canon EOS 10D/ 20D / 30D und 350 D Astro-Upgrade with Baader-Filter (needed Filter ACF2 #2459212)</p> <p>Please read this remarks BEFORE sending a camera to Baader Planetarium.</p>	<p>900 2223</p> <p></p>	<p>EUR 265.-</p>
<p>Canon EOS 5D MKII Astro-Upgrade with Baader-Filter (needed Filter BCF2 #2459214A)</p> <p>Please read this remarks BEFORE sending a camera to Baader Planetarium.</p>	<p>900 2228</p> <p></p>	<p>EUR 345.-</p>

1. Prices

Prices listed on our website for available ACF-/BCF-filters do not include installation costs. Provided that the installation is not hampered by more serious difficulties than the usual ones, and provided that the camera's filter fixture is not bent, broken or otherwise damaged as a result of previous installation attempts, please add the installation costs to the price of the filter (see above):

Forwarding expenses: shipment and insurance within Germany € 15.00; UPS shipment plus full insurance against damage, loss & theft to other destinations within the EU € 35.00; shipment, insurance plus customs documents to non-EU destinations € 60.00 (see item 3 below).

2. Procedure

- Please send your order, stating the camera type and your full address, by email.
- You will immediately receive a confirmation of receipt, which also indicates when you can expect us to start working on your camera. Your order is added to our waiting list which is processed according to incoming date.
- As soon as it is your camera's turn., you will receive a prepayment notification, including the request to send in your camera at your own cost. Do not send your camera before you have received our prepayment request! We trust that you understand our prepayment policy and would like you to know that even longstanding Baader clients are expected to pay in advance so that processing according to incoming date remains consistent. As soon as we have received your payment and the camera, we start the replacement work.
- After about 2-3 weeks the replacement is done and your camera is returned to you, fully insured, by UPS.
- **We can no longer handle shipments from countries outside of the European Union. Cameras need to be shipped from inside the European Union.**

3. Inspection

upon receipt of camera We reserve the right to reject a modification order if on first inspection it transpires that the camera has been opened before and/or treated inexpertly or that the camera is damaged on the outside or inside (e.g. the filter's fixture is bent) or if there is malfunctioning due to damaged hardware or software.

If you want to send us an older camera that has already been opened by other service providers we recommend that you let us know **BEFOREHAND** so that we can discuss possible extra costs which may arise from an increased amount of work involved. We do not repair defect cameras or change their software. The charge for the inspection upon receipt is . 25.00. If the modification can be done this amount is seen as part of the Astro-Upgrade w. Baader- Filter cost listed above. If the replacement cannot be done because of any of the reasons above, the camera will be returned to you in exactly the same condition as we received it. Your prepayment request will be for a total of . 50.00 for the initial inspection as well as return shipping and insurance. For shipment to countries outside the EU please add 25.00 for customs documents.

Please take note that we are not liable in any way for any defects or malfunctioning that you might identify after a camera which we did not accept for modification has been returned to you. Those are the defects which we noted during the inspection and they are the very reason why we declined modification of the camera. Please do not send us a camera for modification if you are aware of technical problems or faulty software. You can save yourself and us a lot of trouble and correspondence.

Of course you are always welcome to buy the ACF filter and have the modification done by another service provider. If, on the other hand, you have bought the ACF filter elsewhere and would like us to do the conversion, please add € 30.00 to the appropriate conversion charge listed above.

4. Sending in your camera

Please **ONLY** send the camera-body without any accessories!

5. Manufacturer warranty

The warranty of the manufacturer (in this case Canon) will hold, but in case of such a warranty defect this camera have to be shipped again to Baader Planetarium for repair.

6. Daylight photography

Astrophotography has top priority in the design of our new ACF filters. We did, however, take the needs of daylight photography into consideration as far as possible. With a modified camera the reproduction of colour (white balance) is adaptable to very high levels in daylight photography, but not each and every theoretically existing shade of colour can be reproduced. In everyday photography this does not matter, and only in rare cases could it happen that shades differ slightly. Colour moiré structures are not entirely suppressed as the softening AA filter was removed. This is preferable for astrophotography because the AA filter causes a slight loss of depth. Without colour moiré suppression linear structures like a chequered shirt may show traces of colour borders in daylight photography.

7. Time needed for conversion

The time for modification depends on the number of earlier orders and currently is about three to six weeks. Orders are strictly processed according to incoming date. Please do not send your camera before you have received our prepayment request.

8. Our guarantee

We guarantee a flawless, proper and professional modification of your camera into an ACF camera . as long as

a fully functional CANON EOS was delivered to us, without hidden software defects or internal mechanical damage. We cannot vouch for the complete absence of dust inside the camera or on the chip. Our optical workshop cleans the chip and filter while exposed to ionized air flows in order to avoid static charging. Remaining dust grains may be removed from the image with the usual technique of flatfielding. Our company has been in existence for more than forty years now. You can rest assured that we do our work conscientious and to the very best of our knowledge so that a flawless ACF Astro DSLR camera will be returned to you in exchange for the flawless camera you sent in.

Legal notice:

The brand names CANON and Canon EOS are the property of Canon Inc. This text and all its wording are our intellectual property and subject to copyright. All rights reserved. We explicitly prohibit the reproduction and reuse of any of the above content and information by other providers. If necessary, we reserve the right to take legal action.



If you still have open questions to our modification service for CANON DSLR-Cameras please use this [Email contactform](#) .

Caption: Example of a Canon EOS which was opened improperly. The checkup on receipt already showed that the camera had been tampered with. In addition hacked software had been installed. Please let us know IN ADVANCE what is wrong with your camera - it saves both of us money, time and nerves...



PLEASE NOTE - expenses WITHOUT alteration:

NO camera that has been opened before will be accepted for filter alterations **if this information is withheld** when the camera is sent in. We see such conduct as an attempted cover-up.

Cameras with **firmware hack** will NOT be accepted for exchanging filters! The camera must be handed in with its original CANON firmware.

When the filter is installed the camera's power supply has to be disconnected. As a result the hacked software no longer functions properly and important menu settings are blocked.

We apologize for any inconvenience, but accepting cameras that have been tampered with for alterations would mean that support by Canon and repairs at the firm's expense - which we have always been able to obtain - would come to an end.

Once again, **BEFORE** the start of alterations and **BEFORE** sending in your camera, we urgently ask you for a chance to talk to you about possible manipulations which others might previously have carried out on the camera.

For showing how difficult such a filter exchange is and for understanding why we emphasized the modification details here some images of what we have found already and what caused a refusal to

modify.



Image 1



Image 2

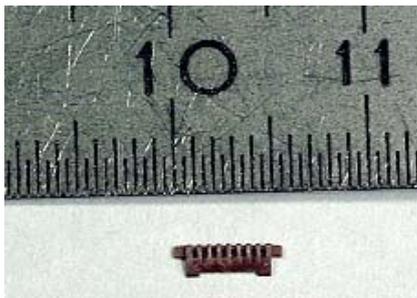


Image 3

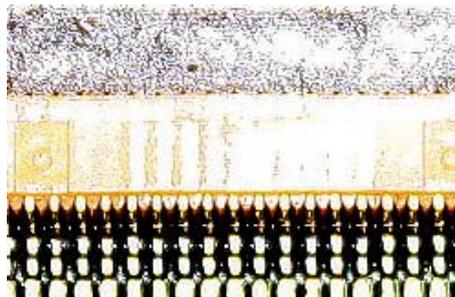


Image 4 shows critical solder points, wrong solder temperature leads easily to melting of the plastic grid

The following images are showing examples of not well made modifications from other service providers. We got those from Cameras sent by customers which wanted another filterexchange.



Image A



Image B

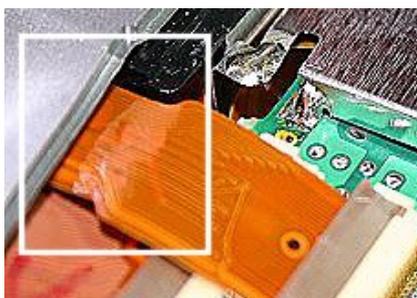


Image C

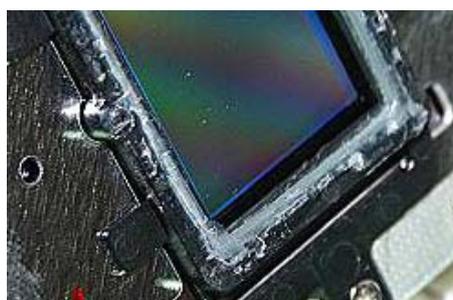


Image A shows fingerprints and a wrongly soldered shield plate.
Image B shows a solder chunk on top of a shield plate. It could loose every time and giving shortcuts inside the electronic boards.
Bild C shows a bended flex wire.
Image D (left) shows a silicon spattered filter. Instead of black silicon a grey one was used, producing stray light.

FAQs: some frequently asked questions, answered in brief:

Q: Does modifying my Camera mean that it will be unusable for daylight photography?

A: No, with manual white balance it is easy to recalibrate the images to daylight values. Only when using images for professional applications a second, unmodified body can be useful, cause there will be a slight reduction in dynamic range and slightly more moire effects visible.

Q: Will you use external filters (like IR or UV) for the modification?

A:
 No, it is absolutely necessary to use filters with the precise size and thickness to guarantee maximum quality. We cannot rely on unknown filters, in addition we are only specialized in astro modifications.

<p>Q: Will the conversion affect the position of the focal plane?</p>	<p>A:</p> <p>The ACF-/BCF- replacement filter has exactly the same effective optical thickness as the original AA filter. During the conversion process the focus is calibrated to the best of our ability.</p>
<p>Q: Will the conversion affect the auto-focus function?</p>	<p>A:</p> <p>No, that is one of the advantages having our professional modification service.</p>
<p>Q: What will the total conversion cost be (excluding my forwarding expenses to you)?</p>	<p>A:</p> <p>It depends on your camera type. Take the cost of the ACF filter in question (e.g. EUR 85.00 for the 350D), add the labour cost for the conversion (e.g. EUR 265.00 for an EOS 350D) plus postage & insurance (typically EUR 35.00 within Europe).</p>
<p>Q: How long will it be until I have my camera back?</p>	<p>A:</p> <p>That depends on the number of cameras waiting for our attention. Our services are very much in demand and we have to ask you to wait for our prepayment request before you send in your camera. We will return it to you after 3-6 weeks (excluding shipment time). Please do not worry if you do not receive a payment request straight away when you have informed us about your decision to have your camera transformed into an H-alpha sensitive Deep Sky imager. Your order, however, will be confirmed and fed into the system immediately, and as soon as it is your camera's turn your payment request is on its way. The waiting time is up to four weeks at present. If it continues to increase we will consider expanding our capacity.</p>
<p>Q: Do you recommend any other adjustments to the camera (while you are busy with it)?</p>	<p>A:</p> <p>No - we only do the filter conversion and adjustments which are directly related to that. We do not offer software upgrades, repair services or cleaning services (other than cleaning the filter and chip to the best of our ability - see the pdf file on our website).</p>
<p>Q: When do I pay?</p>	<p>A:</p> <p>Payment is strictly in advance. For fairness' sake we do not run a dual system of billing some customers in advance and others after the job is done. Instead we decided to process orders by date. After confirming receipt of your order we will send the prepayment request only when we are ready to proceed with your camera because we want neither your payment nor your camera to gather dust.</p>
<p>Q: Do you accept bank transfers via internet?</p>	<p>A:</p> <p>We gladly accept transfers via internet banking facilities as long as you cover ALL fees and charges. Please understand that we expect to see the full amount, as invoiced, in our account before we proceed with your order. Our IBAN and BIC codes appear on our prepayment request.</p>
<p>Q: To which address should I send my camera?</p>	<p>A:</p> <p>For shipments from within the European Union to our company address below: Company: BAADER PLANETARIUM GmbH Contact: Mrs. Angelika Hauser Street: Zur Sternwarte Zip Code: D - 82291 City: Mammendorf Country: Germany</p> <p>VERY IMPORTANT: the ONLY means of shipment from countries outside the European Union is by UPS and your camera will be collected by UPS as directed by us! Items listed on your prepayment request include: *filter</p>

change, depending on filter type; *the filter itself; *UPS shipment from your address to our company; *return shipment after filter replacement. To avoid problems with insurance and customs, **NO OTHER FORM OF SHIPMENT CAN BE ACCEPTED.**



[page top](#)



[back to section overview](#)



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BAADER PLANETARIUM GmbH

ASTRONOMISCHE INSTRUMENTE

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