



21.45" 54.5 cm

1920 x 1080



LCD/LED 2227W HA USER MANUAL

- + GERMAN
- + ENGLISH
- + FRENCH
- + SPANISH
- + ITALIAN
- + RUSSIAN
- + POLISH
- + CZECH

Operation Instructions

Thank you for purchasing this monitor, a high-resolution multi-scan color monitor. Please read this guide thoroughly before installation.

This monitor has been tested and found compliant with the CE mark. These limits are designed to provide proper protection against harmful interference to a residential installation. This monitor generates, uses, and can radiate radio frequency energy. Harmful interference to radio communication may be led as a result if it's not properly installed and used. However, there is no guarantee that interference will not occur in a particular installation. If this monitor does cause serious interference to radio or television reception, resetting the monitor may determine it. Moreover, users are encouraged to correct interference by doing one or more of the following:

- Reorient or relocate the receiving antenna.
- Move the monitor and the receiver further away from each other.
- Connect the monitor into an outlet on a circuit different from that to which the receiver is connected.
- Consult your local dealer or an qualified technician.

Warning:

To assure a continued compliance, a user must use a grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. Also, any unauthorized changes or modifications to this monitor would void the user's authority to operate this device.

Note: If necessary, shielded interface cables and AC power cord must be used to meet the emission level limits.



EU product database for energy label and product information sheet.
2227W HA : <https://eprel.ec.europa.eu/qr/1275068>

Content

Safety Precautions.....	1
First Setup	2
Quick Installation	3
Illustration for turning the high adjustable stand base	4
Front View of the Product	5
Rear View of the Product.....	6
Using On Screen Display (OSD) Functions	7
Supporting Timing Modes	11
Technical Information.....	12
Care and Maintenance.....	13
Troubleshooting	13

Safety Precautions

This monitor is manufactured and tested on a ground principle that a user's safety comes first. However, improper use or installation may result danger to the monitor as well as to the user. Carefully go over the following WARNINGS before installation and keep this guide handy.

WARNINGS:

- ◆ This monitor should be operated only at the correct power sources indicated on the label on the rear end of the monitor. If you're unsure of the power supply in your residence, consult your local dealer or power company.
- ◆ Do not try to repair the monitor yourself as it contains no user-serviceable parts. The monitor should only be repaired by a qualified technician.
- ◆ Do not remove the monitor cabinet. There are high-voltage parts inside that may cause electric shock to human bodies, even when the power cord is disconnected.
- ◆ Ensure that the power cord is connected to a grounded power outlet before turning on the monitor.
- ◆ If smoke, abnormal noise or odor came out from your monitor, caution you should remove the power cord immediately and call your service center.
- ◆ Put your monitor only in a clean, dry environment. Unplug the monitor immediately if gets wet and consult your service technician.
- ◆ Avoid exposing your monitor directly to sunlight or other heat source.
- ◆ Always unplug the monitor before cleaning it. Clean the cabinet with a clean, dry cloth. Apply non-ammonia based cleaner onto the cloth, not directly onto the glass screen.
- ◆ Keep the monitor away from magnetic objects, motors, TV sets, and transformer.
- ◆ Do not place heavy objects on the cable or power cord.
- ◆ For PLUGGABLE EQUIPMENT, the Socket-outlet shall be installed near the equipment and shall be easily accessible.
- ◆ Please do not position the monitor on unsafe space, if it falls, it may be damaged and may hurt the user.
- ◆ Unplug the monitor if it is not going to be in use for an extended period of time.
- ◆ Pay attention to all cables connected to the monitor against stumble hazards.



According to WEEE regulation, this monitor can't be handled as normal trash in Europe when it is out of usage. Please refer to the recycle information from our website to handle it.

First Setup

Congratulation for purchasing this monitor of high performance!

This monitor comes with the following accessories:

- AC/DC Power Adapter
- AC Power cord
- Warranty card
- HDMI cable
- Quick start guide
- Screwdriver

Quick Installation

1. Connect Video cable (HDMI cable)

Make sure both monitor and computer are powered OFF.

Connect the HDMI cable from HDMI output of computer to the HDMI input of the monitor.

Or connect DisplayPort cable *Optional

Connect the DisplayPort cable from DisplayPort output of computer to the DisplayPort input of the monitor.

2. Connect Power cord

Connect the power cord to a properly grounded AC outlet, then to the monitor.

3. Power-ON computer and monitor

Power-ON the computer, then Power-ON the monitor.

4. Windows users: Setting the Timing Mode (Resolution and Refresh Rate)

Example: 1920 x 1080 @ 75 Hz

Resolution Right-click on the Windows desktop > Display Settings > Advanced Display Settings. Set the resolution.

Refresh Rate (vertical frequency) See your graphic card's user guide for instructions.

Example:

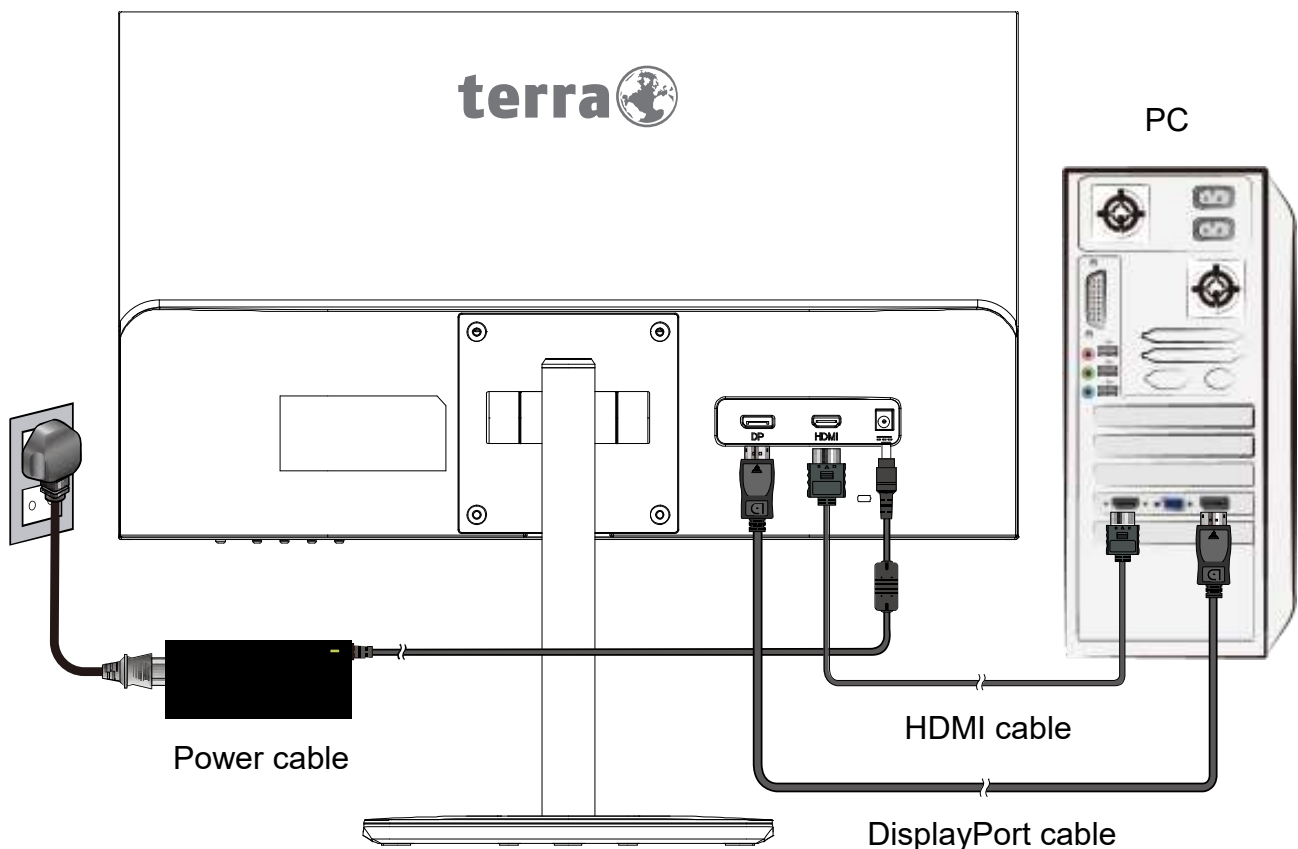
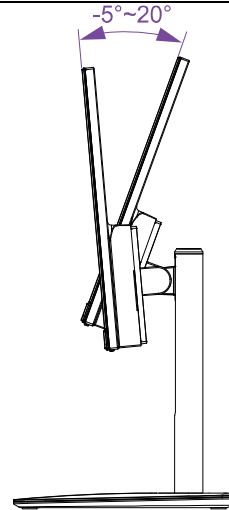


Illustration for turning the high adjustable stand base

(1) Tilt Angle

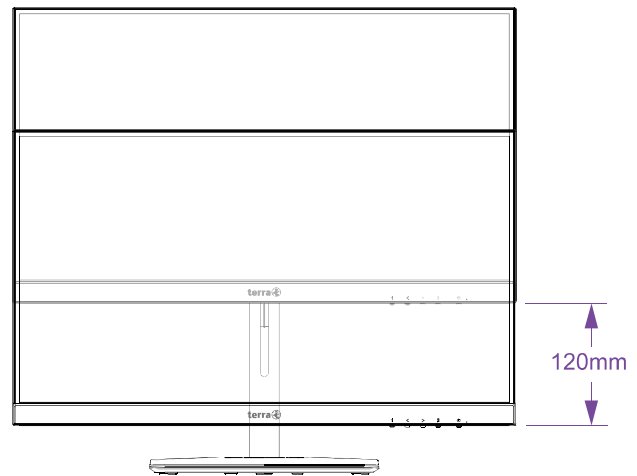
Tilt UP: 20°

Tilt DOWN: -5°



(2) Lift Range

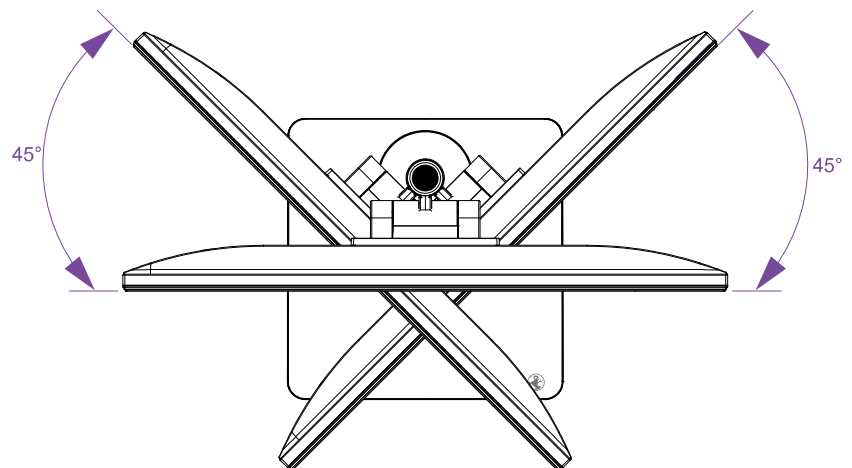
120mm



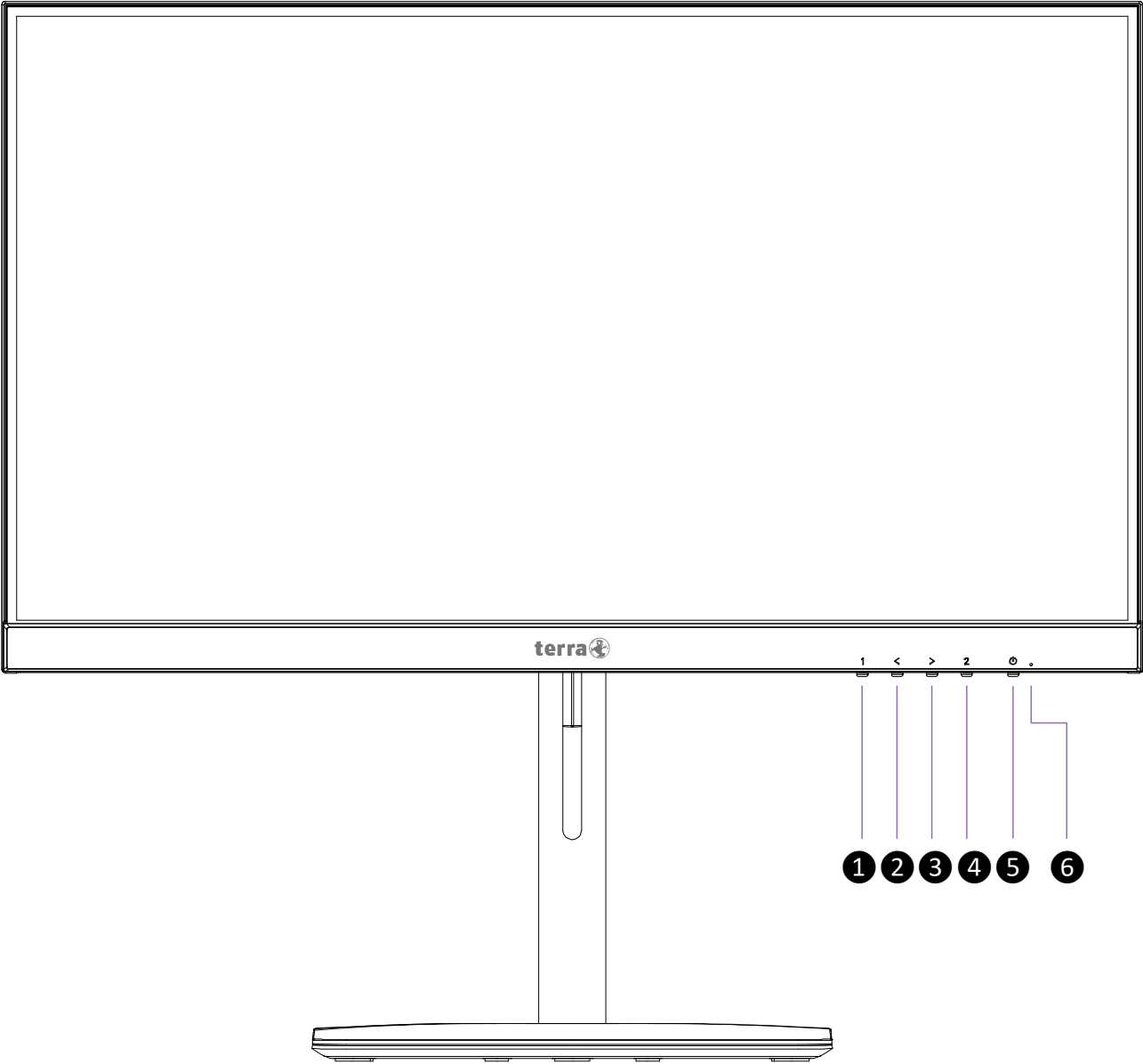
(3) Swivel Angle

Left: 45°

Right: 45°

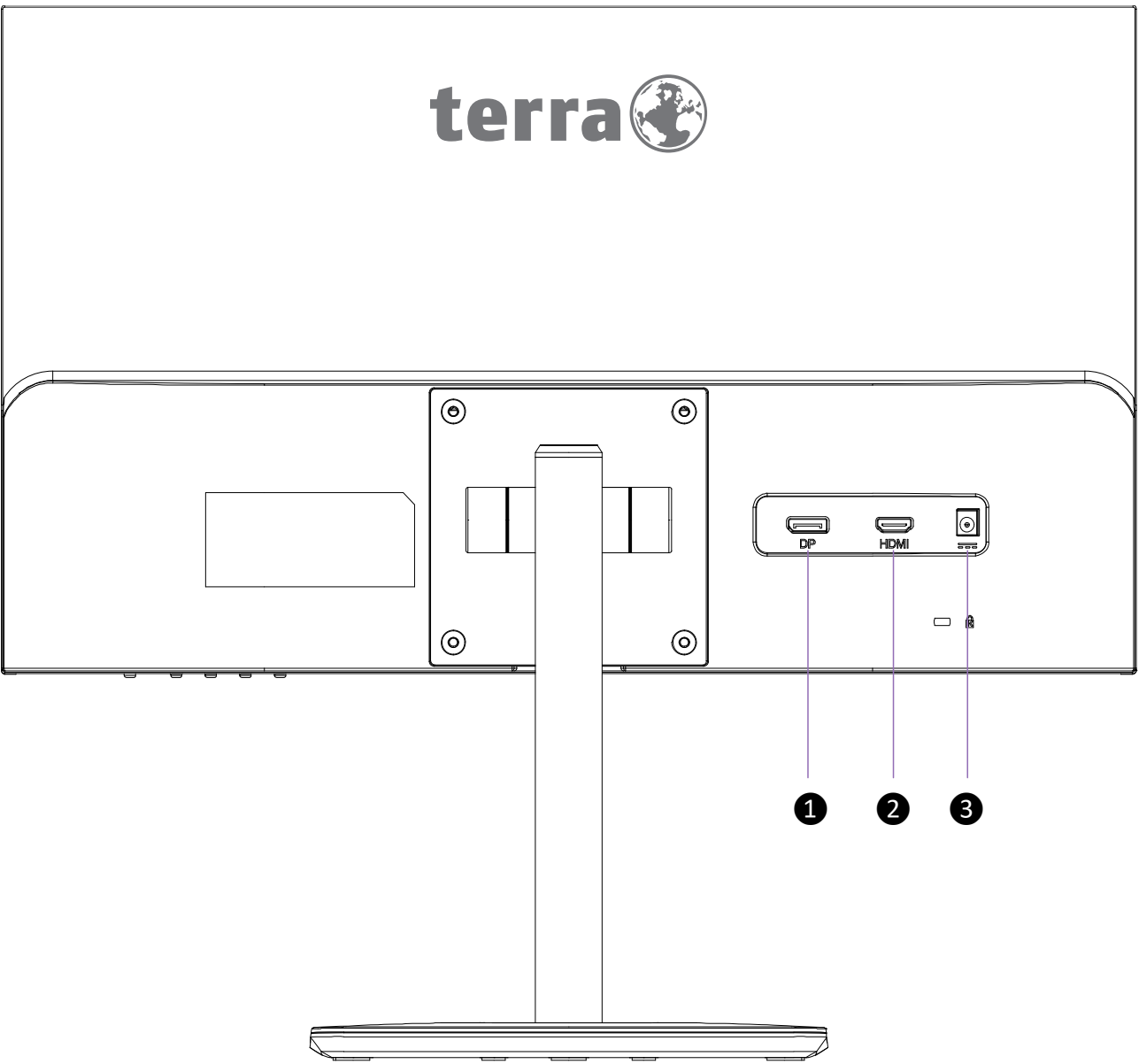


Front View of the Product



①	OSD Menu On/Off
②	Scroll Down/ Decrease
③	Scroll Up/ Increase
④	Confirm Select
⑤	Power ON/OFF
⑥	LED Indicator

Rear View of the Product



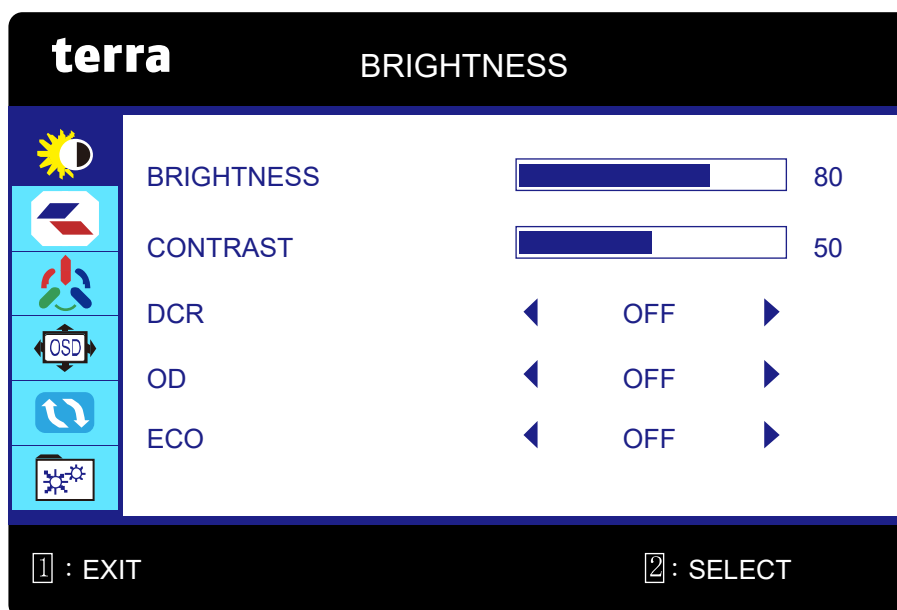
①	DisplayPort input
②	HDMI input
③	Power input

Using On Screen Display (OSD) Functions

1	Display main menu/ Exit from OSD menu
	Press 【 1 】 key long-term: OSD LOCKED
	Then press 【 1 】 key long-term: OSD UNLOCKED
<	Select the desired item when in OSD menu
	When not in OSD menu, directly enters the BRIGHTNESS menu
>	Select the desired item when in OSD menu
	When not in OSD menu, directly enters the ANTI BLUE LIGHT menu
2	Manual adjust mode select for HDMI, DISPLAYPORT mode
	Confirm the Select
⏻	Power ON/OFF
	Press 【 ⏻ 】 key long-term: POWER LOCKED
	Then press 【 ⏻ 】 key long-term: POWER UNLOCKED

Note: Changing OSD settings may increase power consumption.

Short Cuts Function from the button(s)



BRIGHTNESS: To manually adjust the BRIGHTNESS, CONTRAST, DCR, OD and ECO of screen image.

- **BRIGHTNESS:** To adjust the luminance of the video.
<: decrease brightness, >: increase brightness.
- **CONTRAST:** To adjust the foreground white level of screen image.
<: decrease contrast, >: increase contrast.
- **DCR (Dynamic Contrast Ratio):** To detect the distribution of the visual signals inputs, and create an optimized contrast. BRIGHTNESS, CONTRAST and ECO adjustment disabled when DCR is active. Press **2** key to adjust the DCR On or Off.

- **OD (Over Drive):** Allows the user to change the OD strength. Improve the quality of the motion pictures. Press **[2]** key to adjust the OD On or Off.
- **ECO:** Allows the user to turn the ECO On or Off. BRIGHTNESS, CONTRAST and DCR adjustment disabled when ECO is active. Press **[2]** key to adjust the ECO On or Off.

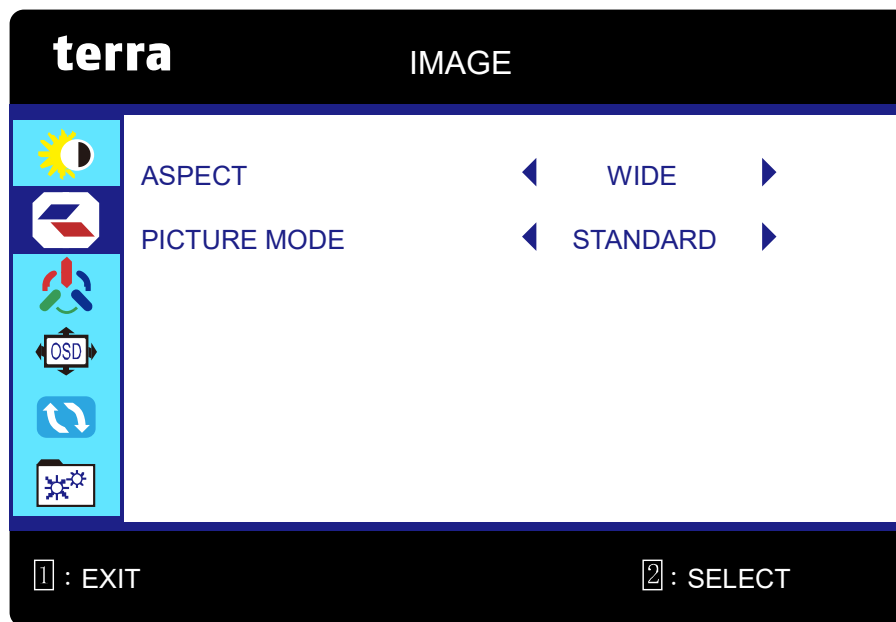
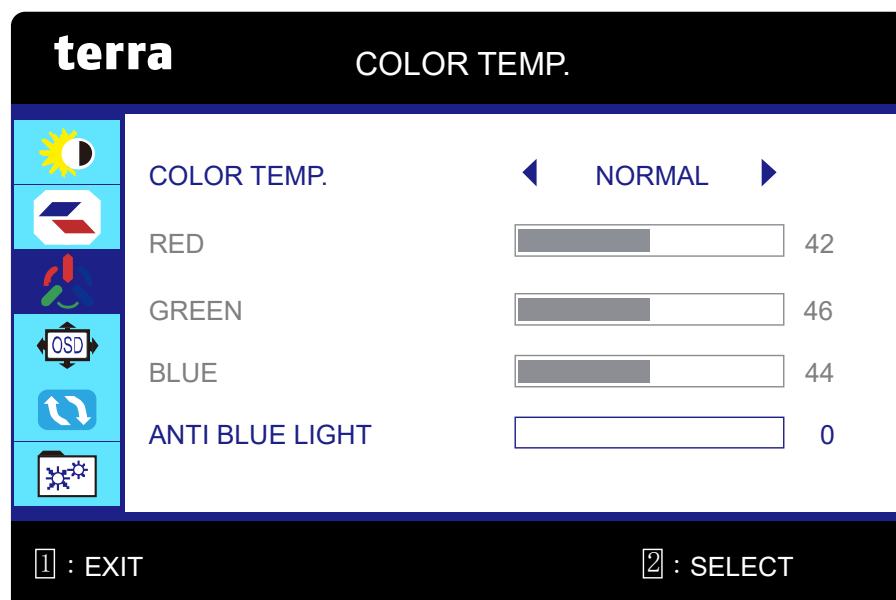


IMAGE: To manually adjust the ASPECT and PICTURE MODE.

- **ASPECT:** To select the video mode from WIDE, 4:3 or AUTO.
WIDE: To select wide size image.
4:3: To select 4:3 image size.
AUTO: To select auto size image.
- **PICTURE MODE:** Provides an optimum display environment depending on the contents displayed. It contains 4 user-selectable presets.
STANDARD is for general windows environment and monitor default setting.
TEXT optimized for text editing and viewing in a word processing environment.
GAME optimized for PC game environment.
MOVIE optimized for movie and video environment.



COLOR TEMP.: To select the color for improving brightness and color saturation between COLOR TEMP. and ANTI BLUE LIGHT.

- **COLOR TEMP.:** To adjust the default picture color. It contains 4 user-selectable presets.

NORMAL: Adds red to screen image for warmer white and richer red.

COOL: Adds blue to screen image for cooler white.

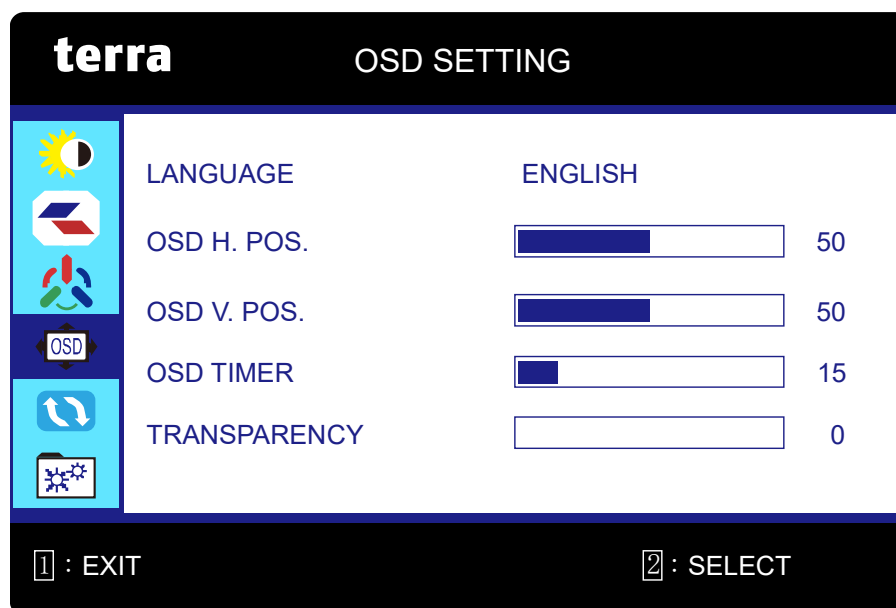
USER: Individual adjustments for RED (R), GREEN (G), BLUE (B).

1. Press button **[2]** to select the desired color.

2. Press < or > button to adjust selected color.

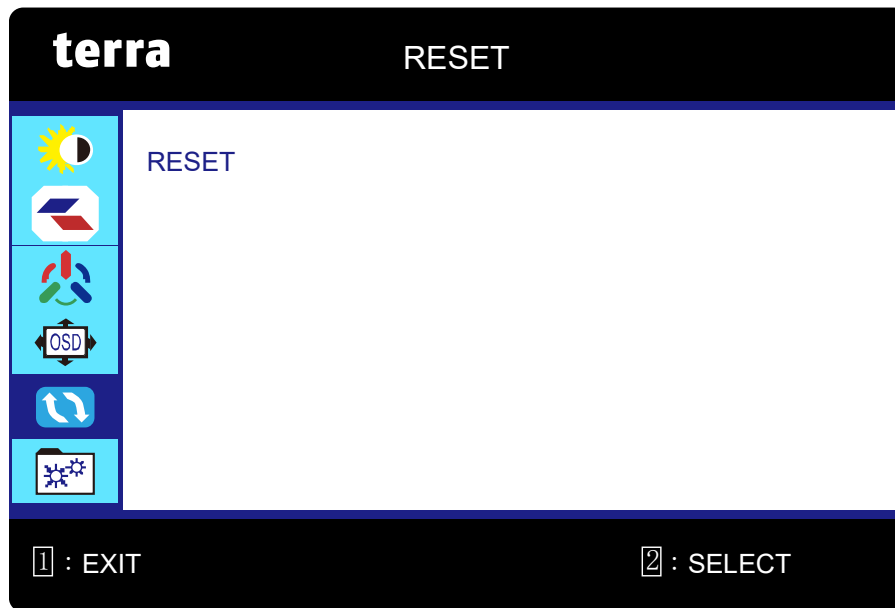
WARM: Adds green to screen image for a darker color.

- **ANTI BLUE LIGHT:** Decreases the blue light emitted from the display to reduce the risk of blue light exposure to your eyes.



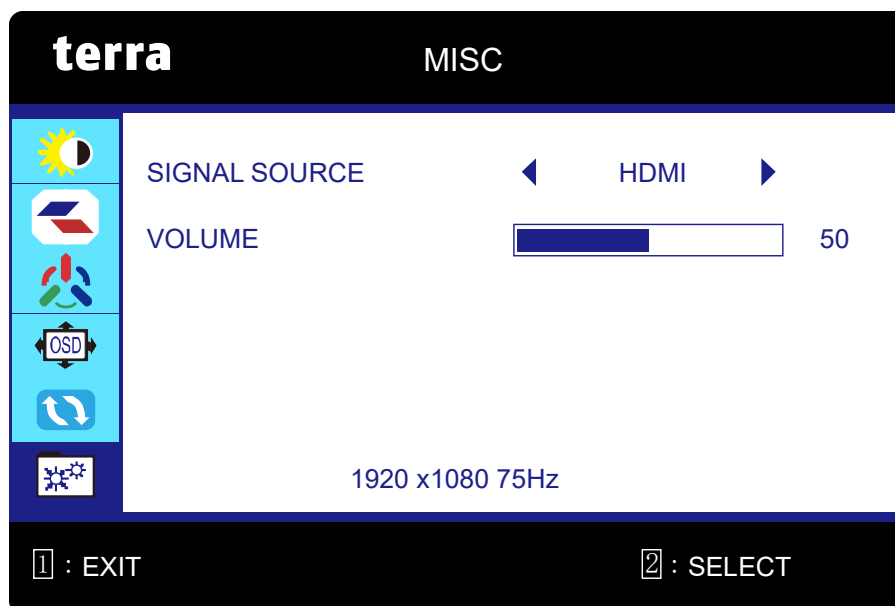
OSD SETTING: To set up LANGUAGE, OSD H. POS., OSD V. POS., OSD TIMER and TRANSPARENCY.

- **LANGUAGE:** To allow users to choose from available languages.
- **OSD H. POS.:** To horizontally adjust the OSD position.
<: move OSD to the right, >: move OSD to the left.
- **OSD V. POS.:** To vertically adjust the OSD position.
<: move OSD to the up, >: move OSD to the down.
- **OSD TIMER:** To automatically turn off On Screen Display (OSD) after a preset period of time.
- **TRANSPARENCY:** To adjust the transparency of the OSD background.



RESET: To recall factory settings for Video & Audio controls.

- **RESET:** Press button [2] to select the Reset menu option.



MISC: To manually adjust the SIGNAL SOURCE and VOLUME.

- **SIGNAL SOURCE:** When Input Source is pressed, change Input signal to HDMI or DISPLAYPORT.
- **VOLUME:** To adjust the volume of speaker output.

Supporting Timing Modes

VGA	720 x 400 @ 70Hz
VGA	640 x 480 @ 60Hz
MAC	640 x 480 @ 67Hz
VESA	640 x 480 @ 72Hz
VESA	640 x 480 @ 75Hz
VESA	800 x 600 @ 56Hz
VESA	800 x 600 @ 60Hz
VESA	800 x 600 @ 72Hz
VESA	800 x 600 @ 75Hz
MAC	832 x 624 @ 75Hz
VESA	1024 x 768 @ 60Hz
VESA	1024 x 768 @ 70Hz
VESA	1024 x 768 @ 75Hz
VESA	1280 x 960 @ 60Hz
VESA	1152 x 864 @ 75Hz
MAC	1152 x 870 @ 75Hz
VESA	1280 x 1024 @ 60Hz
VESA	1280 x 1024 @ 75Hz
VESA	1440 x 900 @ 60Hz
VESA	1440 x 900 @ 75Hz
CVT	1400 x 1050 @ 60Hz
VESA	1600 x 1200 @ 60Hz
VESA	1680 x 1050 @ 60Hz
VESA	1920 x 1080 @ 60Hz
VESA	1920 x 1080 @ 75Hz

*Video Timing Modes

- 480i
- 480p
- 576i
- 576p
- 720p
- 1080i
- 1080p

Warning: Do not set the graphic card in your computer to exceed these maximum refresh rates. Doing so may result in permanent damage to your monitor.

Technical Information

Technical Specification

LCD Panel	54.5 cm (21.45")
Power Management	VESA DPMS compatible Off Mode, ≤ 0.3 W
Displayable Resolution	Full HD 1920 x 1080 max. Vertical Frequency 75Hz max.
Pixel Dimension	0.241 x 0.241 mm
LCD Display Color	16.7M
Active Display Area	478.65 mm x 260.18 mm
Environmental conditions	Operating Temperature: 0°C to 40°C Humidity: 10% to 90%, non-condensing Storage Temperature: -20°C to 60°C Humidity: 10% to 90%, non-condensing
Compliance	CE, UKCA, WEEE, RoHS, BSMI
Power	Input Voltage DC +12V  2.5A FSP, FSP030-DHAN3
Speaker	2W x 2

Care and Maintenance

Care

- Avoid exposing your monitor directly to sunlight or other heat source. Place your monitor away from the sun to reduce glare.
- Put your monitor in a well ventilated area.
- Do not place any heavy things on top of your monitor.
- Make certain your monitor is installed in a clean and moisture-free area.
- Keep your monitor away from magnets, motors, transformers, speakers, and TV sets.

Note

- Move the monitor out of the package and take off the plastic bag and Polystyrene Foam.
- Adjust the tilt of the screen for an optimum seating and viewing position.

Safety Tips

- If smoke, abnormal noise or odor came out from your monitor, caution you should remove the power cord immediately and call your service center.
- Never remove the rear cover of your monitor cabinet. The display unit inside contains high-voltage parts and may cause electric shock to human bodies.
- Never try to repair your monitor yourself. Always call your service center or a qualified technician to fix it.

Troubleshooting

No power

- Make sure AC power cord is securely connected to the power adapter and the power supply is firmly connected to the monitor.
- Plug another electrical device into the power outlet to verify that the outlet is supplying proper voltage.
- Make sure all signal cables are installed.

Power on but no screen image

- Make sure the video cable supplied with the monitor is tightly secured to the video output port on back of the computer. If not, tightly secure it.
- Adjust brightness.

Wrong or abnormal colors

- If any colors (red, green, blue) are missing, check the video cable to make sure it is securely connected. Loose or broken pins in the cable connector could cause an improper connection.
- Connect the monitor to another computer.
- Set all values to the default settings (see "RESET" function).

WEEE Statement



Wichtige Recyclinginformation

Das Gerät darf nach dem Ende der Nutzungszeit nicht mit dem Restmüll entsorgt werden. Bitte führen Sie es zur umweltgerechten Entsorgung den kommunalen Altgeräte-Sammelstellen zu.

Für weitere Informationen wenden Sie sich bitte an die unten stehende Adresse.

Important Information for Recycling

This warning sign of trash bin indicates that the objects are not allowed to be disposed as general refuse. Please follow the local act and carry out further disposal with refuse recycling and collecting system in your Country or District.

Please contact the address below for more information on recycling.

Informations importantes relatives au recyclage

En fin de vie, cet appareil ne doit pas être jeté aux ordures ménagères.

Veuillez respecter les réglementations locales et rester en conformité avec le système de collecte et de recyclage des ordures en vigueur dans votre région.

Pour plus d'information sur le recyclage, veuillez contacter votre centre de recyclage agréé.

Votre attitude quand au recyclage améliorera l'avenir de la planète et créera un environnement de vie de qualité pour les générations futures.

Wortmann AG

Bredenhop 20
D-32609 Hüllhorst

Tel. +49 (0) 5744 / 944-0

Fax +49 (0) 5744 / 944-444

www.wortmann.de

info@wortmann.de



GENERAL PUBLIC LICENSE (GPL) - VER.2

Lizenzinformation Open Source Software/GPL Sourcecode

Dieses Produkt enthält Software, die von Dritten stammt, darunter auch Software, die unter der GNU General Public License Version 2 ("GPLv2") und der GNU Lesser General Public License, Version 1.2 (LGPLv2.1) lizenziert ist. Solche Programmbestandteile werden nachfolgend als „Programm“ oder „Program“ bezeichnet.

Schriftliches Angebot des GPL/LGPL Sourcecodes

Wir werden gegen Erstattung der Kosten für den Datenträger und den Versand des Datenträgers auf Nachfrage jedermann den Sourcecode der GPL- und LGPL-Bestandteile der Software auf einer CD-ROM oder einem ähnlichen Datenträger übersenden. Dieses Angebot ist gültig für einen Zeitraum von drei Jahren ab Erwerb des Produktes.

Bei Nachfragen im Zusammenhang mit GPLv2 und LGPLv2.1: Bitte richten Sie alle GPL/LGPL-Nachfragen an die nachfolgend angegebene Adresse. Wir weisen darauf hin, dass unter der angegebenen Adresse kein technischer Support geleistet wird.

LICENSE STATEMENT / GPL CODE STATEMENT

This product includes software code developed by third parties, including software code subject to the GNU General Public License Version 2 ("GPLv2") and the GNU Lesser General Public License, Version 1.2 (LGPLv2.1). These parts of the software are hereinafter referred to as „the or this Program“

WRITTEN OFFER FOR GPL/LGPL SOURCE CODE

We will provide everyone upon request the applicable GPL and LGPL source code files via CD-ROM or similar storage medium for a nominal cost to cover shipping and media charges as allowed under the GPL/LGPL. This offer is valid for 3 years.

GPLv2 and LGPLv2.1 inquiries: Please direct all GPL/LGPL inquiries to the following address. Note that technical support inquiries will not be supported at the below address.

WORTMANN AG
- GPL ANFRAGE -
Bredenhop 20
32609 Hüllhorst
Deutschland

NO WARRANTY

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too. When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things. To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it. For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software. Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations. Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all. The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The „Program“, below, refers to any such program or work, and a „work based on the Program“ means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term „modification“.) Each licensee is addressed as „you“. Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or



with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

- 3.** You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:
we use this doubled UL to get the sub-sections indented, while making the bullets as unobvious as possible.

a) Accompany it with the complete corresponding machine readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Sub-section b above.) The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable. If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

- 4.** You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

- 5.** You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

- 6.** Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

- 7.** If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice. This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

- 8.** If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

- 9.** The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and „any later version“, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

- 10.** If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM „AS IS“ WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the “copyright” line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <<http://www.gnu.org/licenses/>>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w`.
This is free software, and you are welcome to redistribute it under certain conditions;
type `show c` for details.

The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an “about box”.

You should also get your employer (if you work as a programmer) or school, if any, to sign a “copyright disclaimer” for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <<http://www.gnu.org/licenses/>>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <<http://www.gnu.org/philosophy/why-not-lgpl.html>>.

