

**Truevision TGA™**  
**FILE FORMAT SPECIFICATION**  
**Version 2.0**

Document prepared by:

Truevision, Inc.  
7340 Shadeland Station  
Indianapolis, IN 46256-3925  
317-841-0332 - phone  
317-576-7700 - FAX  
317-577-TRUE (8783) - BBS

Technical Manual Version 2.2 January, 1991  
Copyright© 1989, 1990, 1991 Truevision, Inc.

Truevision is a registered trademark of Truevision, Inc.  
TARGA is a registered trademark of Truevision, Inc.  
TrueVista is a registered trademark of Truevision, Inc.  
ATVista is a registered trademark of Truevision, Inc.  
NuVista is a registered trademark of Truevision, Inc.  
TIPS is a registered trademark of Truevision, Inc.  
TGA is a trademark of Truevision, Inc.

# TABLE OF CONTENTS

## **Disclaimer of Warranties and Limitations of Liabilities**

This manual and the enclosed software were prepared by Truevision, Inc. While the authors and program developers have taken reasonable care in preparing this manual to assure accuracy, the authors assume no liability resulting from any inaccuracy or omissions contained in them or from the use of the information or programs contained herein.

The authors and Truevision, Inc. have no expressed or implied warranty of any kind with regard to these programs or to the supplemental documentation in this manual. In no event shall the authors, the program developers, or Truevision, Inc. be liable for incidental or consequential damages in connection with or arising out of the furnishing, performance or use of any of these programs or documentation. This disclaimer includes but is not limited to any loss of service, loss of business or anticipatory profits, or consequential damages resulting from the use or operation of the enclosed software.

# TABLE OF CONTENTS

<b>INTRODUCTION</b> .....	1
<b>DEFINITIONS</b> .....	2
<b>TGA FILE FORMAT SPECIFICATION</b> .....	4
<b>TGA FILE HEADER</b> .....	6
ID Length - Field 1 (1 byte): .....	6
Color Map Type - Field 2 (1 byte): .....	6
Image Type - Field 3 (1 byte): .....	6
Color Map Specification - Field 4 (5 bytes): .....	7
Image Specification - Field 5 (10 bytes): .....	8
<b>IMAGE/COLOR MAP DATA</b> .....	10
Image ID - Field 6 (variable): .....	10
Color Map Data - Field 7 (variable): .....	10
Image Data - Field 8 (variable): .....	10
<b>DEVELOPER AREA</b> .....	11
Developer Data - Field 9 (variable): .....	11
<b>EXTENSION AREA</b> .....	13
Extension Size - Field 10 (2 Bytes): .....	13
Author Name - Field 11 (41 Bytes): .....	13
Author Comments - Field 12 (324 Bytes): .....	13
Date/Time Stamp - Field 13 (12 Bytes): .....	14
Job Name/ID - Field 14 (41 Bytes): .....	14
Job Time - Field 15 (6 Bytes): .....	14
Software ID - Field 16 (41 Bytes): .....	15
Software Version - Field 17 (3 Bytes): .....	15
Key Color - Field 18 (4 Bytes): .....	15
Pixel Aspect Ratio - Field 19 (4 Bytes): .....	16
Gamma Value - Field 20 (4 Bytes): .....	16
Color Correction Offset - Field 21 (4 Bytes): .....	16
Postage Stamp Offset - Field 22 (4 Bytes): .....	16
Scan Line Offset - Field 23 (4 Bytes): .....	17
Attributes Type - Field 24 (1 Byte): .....	17
Scan Line Table - Field 25 (Variable): .....	18
Postage Stamp Image - Field 26 (Variable): .....	18
Color Correction Table - Field 27 (2K Bytes): .....	18
<b>TGA FILE FOOTER</b> .....	19
Byte 0-3 - Extension Area Offset - Field 28 .....	19
Byte 4-7 - Developer Directory Offset - Field 29 .....	19
Byte 8-23 - Signature - Field 30 .....	20
Byte 24 - Reserved Character - Field 31 .....	20
Byte 25 - Binary Zero String Terminator - Field 32 .....	20
<b>IMAGE TYPES</b> .....	21
DATA TYPE 1 - COLOR-MAPPED IMAGES .....	21
DATA TYPE 2 - TRUE-COLOR IMAGES .....	21
DATA TYPE 3 - BLACK AND WHITE (UNMAPPED) IMAGES .....	22
DATA TYPE 9 - RUN-LENGTH ENCODED (RLE), COLOR-MAPPED IMAGES .....	22

# TABLE OF CONTENTS

DATA TYPE 10 - RUN-LENGTH ENCODED (RLE), TRUE-COLOR IMAGES .....	23
DATA TYPE 11 - RUN-LENGTH ENCODED (RLE),.....	23
BLACK AND WHITE IMAGES .....	23
<b>RUN-LENGTH ENCODING OF IMAGES .....</b>	<b>24</b>
Run-Length Packet: .....	25
Raw Packet (i.e., Non-Run-Length Encoded):.....	26

