

# Annual Report 2009



**CODIXX**  

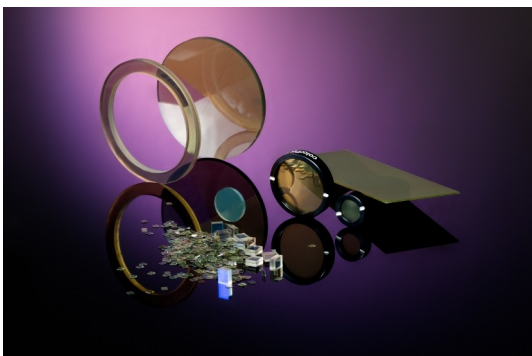
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**Aktiengesellschaft**



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## BOARD MEMBERS



### Managing Board

Detlef M. A. Prinzler

Managing board since October 29, 1999

### Supervisory Board

Dr. Paul-Frank Weise

Solicitor, Braunschweig,  
Chairman since September 1, 1998,  
appointed for a complete term in office until the  
end of the general shareholders' meeting, which  
will decide about the discharge for the business  
year 2012 (2013)

Dr. Dinnies Johannes von der Osten

Managing director of Goodvent Beteiligungs-  
management GmbH & Co. Magdeburg,  
Deputy Chairman since September 1, 1998,  
appointed for a complete term in office until the  
end of the general shareholders' meeting, which  
will decide about the discharge for the business  
year 2012 (2013), (until December 31, 2009)

Dr. Günter Heine

Physicist, Biesenthal,  
Board Member since August 27, 2009,  
appointed for a complete term in office until the  
end of the general shareholders' meeting, which  
will decide about the discharge for the business  
year 2013 (2014)

Klaus Gerber

Managing board of Volksbank Lauterecken,  
Board member since March 10, 2004,  
appointed for a complete term in office until the  
end of the general shareholders' meeting, which  
will decide about the discharge for the business  
year 2013 (2014)

Dr.- Ing. Hans-Jürgen Gaudig

Managing director of Ingenieurgesellschaft BBP  
Bauconsulting mbH, Berlin,  
Board member since August 30, 2007  
appointed for a complete term in office until the  
end of the general shareholders' meeting, which  
will decide about the discharge for the business  
year 2011 (2012)

Kurt-Wolfgang Fredemann

Brigadegeneral a. D., Neuburg a. d. Donau,  
Board Member since August 27, 2009,  
appointed for a complete term in office until the  
end of the general shareholders' meeting, which  
will decide about the discharge for the business  
year 2013 (2014)

Thure von Wahl

Managing director SET SELECT ENERGY  
GmbH, Hamburg,  
Board member since March 10, 2004,  
appointed for a complete term in office until the  
end of the general shareholders' meeting, which  
will decide about the discharge for the business  
year 2008 (2009), (until August 27, 2009)

Corte Harmjanz

Solicitor, Magdeburg,  
Board member since August 8, 2001,  
appointed for a complete term in office until the  
end of the general shareholders' meeting, which  
will decide about the discharge for the business  
year 2010 (2011), (until August 27, 2009)

Dear Shareholders,

The year 2009 was for many companies worldwide the most difficult one following the economic downturn. Fortunately, CODIXX' sales figures declined by no more than 10 % and were thereby better than expected in last year's prognosis. The main reason for this was the noticeable recovery in almost all market sectors since September 2009.

The catalogue business and the telecommunications sector asserted themselves as major contributors to turnover. Additional growth was achieved in medical technology and imaging systems for the shipbuilding and aircraft construction sector, which partly compensated for the continuous low sales figures in the semiconductor industry. But since this segment has also started to recover in the last quarter of 2009 a significant sales increase is expected for 2010.

The temporary drop in 2009 was particularly noticeable for large LED displays. Here, reluctance especially regarding spare part orders caused a decline in sales of more than 50%. Fortunately, a recovery may also be expected here for the business year 2010.

Due to the presented sales decreases as well as the lower overall performance of the company the annual result was lower than in the previous year, as expected.

Yet, operative expenditure was covered almost completely by achieved sales revenues in 2009. Together with other revenues, amongst others from subsidies for a development project, as well as further cost reductions, the cash outflow of the company has been limited to €33K.

For the business year 2009, CODIXX AG made an annual loss of €486K, which is €289K more than in the previous year. The overall performance dropped by €388K to €1,565K.

The cost reduction measures, introduced in the previous year, reduced expenditure items to a total of €59K so that the decrease in the operating result was limited to €-198K. The non-operating result was increased by €31K to €39K, the interest result was also increased by €9K to €-327K.

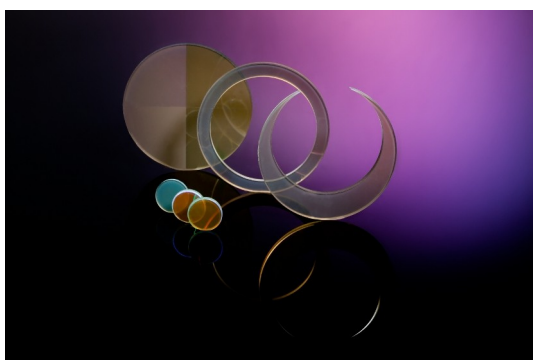
Due to the recovery of the economic situation in almost all relevant sales markets a significantly higher turnover increase of 40% - 50% is expected for the business year 2010. Based on this CODIXX AG expects a positive result for the first time. Additional measures to improve the financial situation in 2010 provide the groundwork for a long-term positive development of the company.

Barleben, July 2010

Managing Board

Detlef M. A. Prinzler

# 1. REPORT OF THE SUPERVISORY BOARD



Dear Shareholders,

During the business year 2009, the supervisory board has monitored the business management regularly. The supervisory board held five meetings last year. In addition to the respective meetings, the supervisory board was kept informed comprehensively and promptly about all important business transactions by the managing board as well as by the respective department representatives.

Considering the business environment, CODIXX AG delivered satisfactory results for the business year 2009. After the first six months showed a limited order volume in almost all important sales markets due to the financial and economic crisis, sales recovered significantly in the second half of the year. In the final quarter a significant reduction in the level of decline in sales, that was prognosticated at the general shareholders' meeting 2009, was achieved.

In July 2009 financial depreciation exceeded the issued share capital by 50%. Since there is no risk of a rapid loss of equity or of excessive debts, no resolution was made at the general shareholders' meeting on 27 August 2009 regarding countermeasures; to ensure ability to act quickly, the creation of a new authorized capital to the amount of €1,750,000 was approved.

In addition to the actual meetings, the supervisory board was briefed face-to-face, over the telephone and via written reports about the company's development and situation. During the

course of the briefings between the supervisory board, managing board and the department managers, the supervisory board could get a comprehensive picture of opportunities, risks, further business strategies as well as of individual business transactions.

Business transactions, which require by law and regulations the approbation of the supervisory board, have been discussed with the managing board and were approved by the supervisory board.

The auditor's report contains the unrestricted audit certificate of PriceWaterhouseCoopers Aktiengesellschaft Wirtschaftsprüfungsgesellschaft (auditing company).

The supervisory board has given its final approval of the annual accounts, compiled by the managing board, without reservations. Thereby, the annual accounts for the year 2009 have been declared.

Barleben, July 2010

Supervisory Board

Dr. Paul-Frank Weise

Chairman

## 2. MANAGING BOARD REPORT

### 2.1. Business Performance

For CODIXX the year 2009 was better than expected and the company emerges stronger from the difficult economic situation. After the first six months showed a limited order volume in almost all important sales markets due to the financial and economic crisis, sales recovered significantly in the second half of the year. With €1.29 million the annual turnover exceeded the projected amount by approximated €200K. The sales of polarizers comprise €1.25 million and the product range large LED displays achieved a turnover of €41K. Due to early introduced cost reductions the annual result could be limited to €-468K. Moreover, the company managed to maintain the solvency levels from the beginning of the year throughout the business year.

The main activities in the business year 2009 were in addition to nurturing existing business relations at the conventional sales markets, above all the further expansion of our market position in the optical communications industry in Asia as well as diversifying in new applications. As in the previous year the catalogue suppliers were the principal source of revenue, followed closely by the telecommunications market, which in spite of a market related decline maintained a stable level compared to 2008 because of the positive achievements in Asia. The semiconductor industry revived significantly in the last quarter of 2009, the incoming orders have already almost reached the order volume from before 2008.

Major sales regions for the business year 2009 were the USA and Germany followed by the Asian market, whose share of turnover has significantly increased. Additional important sales regions are the EU and Australia. Due to the market developments the marketing activities were intensified regarding the diversified markets in the field of photonics as well as the specific telecommunications markets. For the development of new applications and expanding into the related markets a development project has been run in cooperation with partners since

May 2009 with the aim to develop an application based on a microstructured polarizer developed by CODIXX as part of the project.

In the business year 2009 the company's investment activities were characterized by the necessary expansion of the production plant as well as the acquisition and updating of quality assurance equipment. A significant share of the investment was achieved by the company's members of staff.

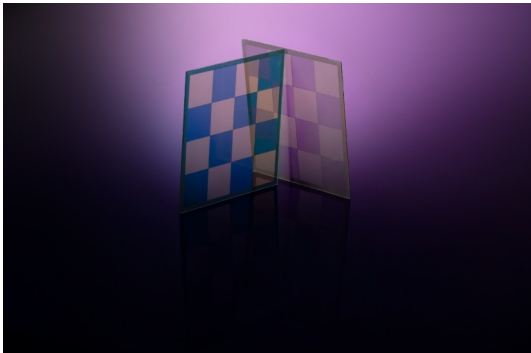
Quality assurance made a significant contribution to stabilizing the company's market position. The complaint rate was again lower than 0.1% and reflects the high quality of the colorPol<sup>®</sup> - products as well as a high customer satisfaction. The audit regarding the proper use of the quality management system in July 2009 in compliance with the current standard ISO 9001:2008 did not give rise to any objections.

To secure the continuous business development of the company, further agreements with the associated companies have been reached to relieve the company's payment obligations. Therefore, in the 3rd quarter of 2009 an additional adjustment of the payment obligations regarding the investment return to silent partners was agreed for 2009 up to and including 2010. Additionally, the associated companies agreed to partially waiving the remaining payment obligations for the years 2005 up to and including 2009 to the amount of €1.45 million in return for the payment of compensation to the amount of €300K, which shall be financed by a capital increase of up to €500K, planned for the 2. quarter of 2010. Any capital inflow higher than €300K resulting from the capital increase shall be used to ensure necessary investments.

After the successful audit by the auditing company PriceWaterhouseCoopers Aktiengesellschaft the annual accounts of CODIXX AG for the business year 2009 received an unrestricted audit certificate.

## 2. MANAGING BOARD REPORT

### 2.2. Public Relations and Marketing



In recent years CODIXX AG proved itself as reliable partner for big and small companies in various industry branches. Short lead times were maintained for the complete range of products and services despite the difficult market situation. In particular CODIXX fulfilled its responsibilities as a single source supplier.

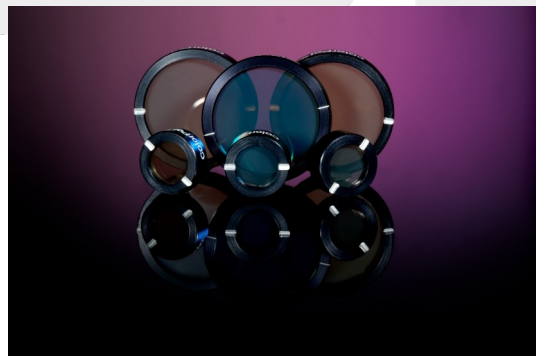
The recovery of the semi-conductor industry, the development in the telecommunications sector as well as the success in the field of projectors have lead to a changed customer base. The turnover shares of the various markets are balanced, which is reflected in our marketing activities. The main focus is on trade fair participations, in particular fairs for the diversified photonics markets and specific telecommunications markets.

As in previous years a strong presence at international trade shows in Great Britain, France, Japan, and the USA was maintained in 2009 through cooperation with our distributors.

important leading optic and photonics trade shows:

- Photonics West in San José (USA)
- Laser China in Shanghai (China)
- OFC in San Diego (USA)
- Laser Expo in Yokohama (Japan)
- Laser in Munich (Germany)
- Photonex in Warwickshire (United Kingdom)
- ECOC 2009 in Vienna (Austria)
- Opto in Paris (France)

The catalogue business remains stable. The distribution of CODIXX polarizers with their specific characteristics is promoted via industry specific catalogues in the academic field, but also in research laboratories as starting point for new developments.



In 2009 the company took part in the following

## 2. MANAGING BOARD REPORT

### 2.3. Outlook

The already in 2009 noticeable recovery continued in 2010. Previous average sales volumes were reached or exceeded in almost all market sectors. The resulting turnover increase is further improved by new customers from existing and new market sectors.

In addition to marketing related to the photonics and telecommunications industries, activities also focused on consolidating the company's presence in the market for display and image processing systems for high-tech and industrial applications. Furthermore, CODIXX will continue its involvement in new developments for the appliance market, which require polarizers. The development of structuring technologies will be continued. Here, the company consistently continues with the development project in conjunction with a university and an additional partner, who will use the polarizers to be developed in their measuring instruments.

In addition to this project CODIXX shall be in charge of the creation and operation of the laser-based surface treatment section as part of a joint measure to increase competencies within the automotive industry.

The total count as well as the related volume of enquiries or offers from January to May 2010 have significantly increased compared with the previous year. This is due to the recovery in most industry sectors with positive prognoses for this year.

For the business year 2010 the company expects a jump in sales of 40-50%. Together with the impact of the partial payment of obligations to associated companies a very positive result is expected.



### 3. CODIXX – FINANCIAL STATEMENTS 2009

#### 3.1. Balance Sheet at December 31, 2009

ASSETS	Dec 31, 2009	Dec 31, 2008
	€	€
<b>A. Fixed assets</b>		
I. Intangible assets		
Patents and software	122.90	593.88
II. Tangible assets		
1. Improvements and operating equipment	80,096.31	101,630.70
2. Technical machinery and equipment	1,979,490.30	2,325,117.08
3. Other plant, operating, and office equipment	227,274.90	264,704.78
4. CIP assets	95,347.57	39,102.73
	2,382,209.08	2,730,555.29
	<b>2,382,331.98</b>	<b>2,731,149.17</b>
<b>B. Current assets</b>		
I. Inventories		
1. Raw materials, consumables, and supplies	271,167.71	273,218.49
2. Unfinished goods	3,142,396.43	2,970,734.31
3. Finished goods	532,279.68	544,423.92
	3,945,843.82	3,788,376.72
II. Receivables and other assets		
1. Accounts receivables	144,735.40	128,589.38
2. Other assets	38,794.64	52,564.78
	183,530.04	181,154.16
III. Cash and cash equivalents	210,119.88	243,040.12
	<b>4,339,493.74</b>	<b>4,212,571.00</b>
<b>C. Prepaid Expenses</b>	<b>8,262.54</b>	<b>10,365.78</b>
	<b>6,730,088.26</b>	<b>6,954,085.95</b>

### 3. CODIXX – FINANCIAL STATEMENTS 2009

<b>LIABILITIES AND SHAREHOLDER'S EQUITY</b>	<b>Dec 31, 2009</b>	<b>Dec 31, 2008</b>
	<b>€</b>	<b>€</b>
<b>A. Shareholder's Equity</b>		
I. Common stock (no par value)	3,500,000.00	3,500,000.00
II. Additional paid-in capital	7,064,584.21	7,064,584.21
III. Accumulated Loss	9,068,934.12	8,582,742.79
	<b>1,495,650.09</b>	<b>1,981,841.42</b>
<b>B. Deposits of silent partners</b>	<b>3,478,229.70</b>	<b>3,478,229.70</b>
<b>C. Accrued liabilities and contingencies</b>		
1. Other accrued liabilities and contingencies	<b>61,230.21</b>	<b>62,341.64</b>
<b>D. Liabilities</b>		
1. Liabilities to banks	15,252.41	16,279.00
2. Advance payments on orders	187.98	385.44
3. Accounts payable	176,793.08	206,710.12
4. Other liabilities	1,502,744.79	1,208,298.63
(Thereof tax € 13,675.59; December 31, 2008 € 6,468.58)		
(Thereof social security contributions € 2,331.53; December 31, 2008 € 1,058.78)		
	<b>1,694,978.26</b>	<b>1,431,673.19</b>
	<b>6,730,088.26</b>	<b>6,954,085.95</b>

### 3. CODIXX – FINANCIAL STATEMENTS 2009

#### 3.2. Income Statement for the Business Year 2009

	2009	2008
	€	€
1. Sales revenues	1,290,735.19	1,436,090.91
2. Inventory increase of finished and unfinished goods	159,517.88	446,311.46
3. Other internally produced and capitalized assets	43,390.26	44,083.44
4. Other operating revenue	111,122.30	35,298.54
5. Cost of sales		
a) Expenses for raw materials, consumables, and supplies	31,903.60	54,710.89
b) Expenses for purchased services	64,022.18	62,409.72
<b>Gross profit</b>	<b>1,508,839.85</b>	<b>1,844,663.74</b>
6. Personal expenditure		
a) Salaries	618,839.47	682,003.82
b) Social security contributions	139,799.23	131,808.97
7. Depreciation of intangible and tangible assets	412,629.32	419,655.27
8. Other operating expenses	496,372.69	471,329.54
9. Other interest and similar revenue	2,916.19	2,005.07
10. Interest and similar expenses	329,686.99	338,284.55
<b>11. Result from ordinary activities</b>	<b>-485,571.66</b>	<b>-196,413.34</b>
12. Miscellaneous taxes	619.67	908.75
<b>13. Annual loss</b>	<b>486,191.33</b>	<b>197,322.09</b>
14. Loss carried forward	8,582,742.79	8,385,420.70
<b>15. Accumulated Loss</b>	<b>9,068,934.12</b>	<b>8,582,742.79</b>

### 3.3. Explanatory Notes

#### 3.3.1. General Information

The annual accounts have been compiled in compliance with the financial reporting requirements of the German commercial code for large capital companies as well as the supplementary requirements of the German Stock Companies Act ("Aktiengesetz"). Here an assessment of the assets and liabilities on the going concern basis has been carried out because due to the partial waivers, agreed with the silent partners and the corporate actions the continuation of the company is secured.

As in the previous year no management report has been created.

The total cost method has been applied for the income statement.

In the interests of clarity the chosen presentation option is to always place information and annotations to the individual items of the annual accounts in the explanatory notes.

#### 3.3.2. Accounting and Valuation Principles

The **fixed assets** are recognized as amortized acquisition or production costs. The production costs comprise material and production cost per item directly allocable to the fixed assets; for self-produced items of the tangible assets an adequate share of the overheads is included in the production costs.

The **scheduled linear depreciation** is executed in accordance with the asset depreciation range. The depreciation of accrued

assets will be carried out as pro rata temporis from the month of acquisition or production, respectively.

Low-value assets with acquisition or production cost per item of more than €150.00 up to €1,000.00 will be summarized as compound items for low-value fixed assets and will be depreciated over a period of five years starting with the year of acquisition.

Low-value assets with an acquisition cost per item of up to €150.00 are fully depreciated in the year of acquisition and will be treated as disposed items after three years.

**Raw materials, consumables, and supplies** are valued at acquisition cost; and **finished and unfinished goods** at production cost; the lower of cost or market principle is applied. The production cost comprises the direct material and labor costs as well as an appropriate part of the overhead costs. The rules of the lower of cost or market principle are observed.

The **remaining current assets** are balanced at par value. Receivables are adjusted using a flat rate allowance of 0.5 % of the net holdings of deliveries and services, as a provision against latent risks and against general credit risks.

Receivables as well as bank balances in **foreign currency** were converted using the Interbank Mean Rate of December 31, 2009.

**Accrued liabilities** and contingencies are recognized at best estimated value, which is required to cover all identifiable risks and uncertain liabilities, identified as part of a rational accounting analysis.

**Liabilities** have been recorded with their redemption value.

## 3. CODIXX – FINANCIAL STATEMENTS 2009

### 3.3.3. Annotations to the Balance Sheet and to the Income Statement

#### 3.3.3.1. Balance Sheet Information

The development of the individual items of the **fixed assets** is shown in the fixed assets schedule (development of the fixed assets). The **common stock** is divided into 3,500,000 shares with no par value.

The premium paid on the shares is accounted for as **additional paid-in capital**.

The **deposits of silent partners** have each a maturity of more than a year, but less than five years.

The **other accrued liabilities** and contingencies have developed as follows:

in €	Balance Jan 1, 2009	Usage	Reversal	Additions	Balance Dec 31, 2009
Annual accounts and audit costs	23,580.00	23,580.00	0.00	24,991.27	24,991.27
Accumulated leave obligations	9,054.00	9,054.00	0.00	6,093.00	6,093.00
Employers' liability insurance association	4,800.00	4,057.77	742.23	4,000.00	4,000.00
Warranties	14,300.00	0.00	950.00	0.00	13,350.00
Other personnel provisions	509.64	509.64	0.00	0.00	0.00
Provisions for legal costs	0.00	0.00	0.00	12,116.94	12,116.94
Annual accounts and audit costs	10,098.00	5,769.69	3,649.31	0.00	679.00
	<b>62,341.64</b>	<b>42,971.10</b>	<b>5,341.54</b>	<b>47,201.21</b>	<b>61,230.21</b>

#### 3.3.3.2. Information to the Income Statement

The **sales revenues** were mainly generated by the global sale of polarizers and additionally by the national sale of large LED-displays. The main sales markets for the polarizers are the EU, North America and East Asia.

The **other capitalized in-house efforts** (€43K) are contributions to the fixed assets.

The **other operating revenue** comprises, among others, personnel costs reimbursement of €20K, subsidies for a research project to the amount of €38K, investment subsidies to the amount of €23K, income from exchange rate

The **liabilities to banks** comprise a loan as part of a funded project to the amount of €15K, thereof €4K with a maturity of up to one year.

The **accounts payable** have a maturity of up to one year.

**Other liabilities** of €99K are due within a period of twelve months.

differences to the amount of €15K, and revenues from the reversal of provisions of €5K.

#### 3.3.4. Other Information

Other Financial Obligations

Other financial liabilities consist of rental, advisory and service contracts amounting to €197K. Thereof €159K fall due within a year.

Furthermore, there are other financial liabilities from agreements regarding debt waivers with debtor warrants to the amount of €183K, whose maturity depends on future profits.

### 3. CODIXX – FINANCIAL STATEMENTS 2009

Furthermore, there are warranty bonds of the amount of €9K with a maximal maturity of 27 months.

#### Fees for Auditing Services

The total amount of fees for auditing services for the business year 2009 is €20K, €16K for the audit, €3K for tax accountancy services and €1K for other services.

#### Authorized Capital

On 26 August 2004 the general shareholders' meeting has authorized the managing board to increase the share capital with the approval of the supervisory board by 25 August 2009 by up to €738,345 by issuing new shares one or several times against cash or contributions in kind (Authorized Capital II). Within this authorization the share capital was increased in 2006 by €105,225 to € 3,300,000 and again in 2008 by € 200,000 to € 3,500,000. The remaining authorized capital II to the amount of €433,120 has expired on 25 August 2009.

On 27 August 2009 the general shareholders' meeting has authorized the managing board to increase the share capital with the approval of the supervisory board by 30 August 2014 by up to €1,750,000 by issuing new shares one or several times against cash or contributions in kind. Thus the authorized capital is €1,750,000 at the balance sheet date.

#### Managing Board

Detlef M. A. Prinzler, Managing director of P&P Consulting GmbH, Edewecht, as well as liquidator (extended by endorsement) of the former Magdeburger Wasser- und Abwassergesellschaft mbH i.L., Magdeburg, and managing director of the Trinkwasserversorgung Magdeburg GmbH, Magdeburg.

Mr. Prinzler does not have an employment contract with CODIXX and does not receive earnings from CODIXX.

#### Supervisory Board

Dr. Paul-Frank Weise, solicitor, Braunschweig, chairman of the board,

Dr. Dinnies Johannes von der Osten, managing director of Goodvent Beteiligungsmanagement GmbH & Co. KG, Magdeburg,

Klaus Gerber, Managing board of the Volksbank Lauterecken, Lauterecken,

Dr.-Ing. Hans-Jürgen Gaudig, Managing director of Ingenieurgesellschaft BBP Bauconsulting mbH, Berlin,

Dr. Günter Heine, physicist, Biesenthal, member by decision of the general shareholders' meeting on 27.08.2009,

Kurt-Wolfgang Fredemann, Brigadegeneral a. D., Neuburg a. d. Donau, member by decision of the general shareholders' meeting on 27.08.2009,

Thure von Wahl, Managing director of SET SELECT ENERGY GmbH, Hamburg (until 27.08.2009),

Corte Harmjanz, Solicitor, Magdeburg (until 27.08.2009),

For their activities in the business year 2009 the members of the supervisory board received earnings to the amount of €23K.

#### Employees

The annual average of **employees** was:

	2009	2008
Glas Polarizers	16	17
Large LED-Displays	1	1
Administration	3	3
	<b>20</b>	<b>21</b>

Barleben, June 27, 2010

Detlef M. A. Prinzler  
Managing Board

## 3. CODIXX – FINANCIAL STATEMENTS 2009

### 3.3.5. Development of the fixed assets

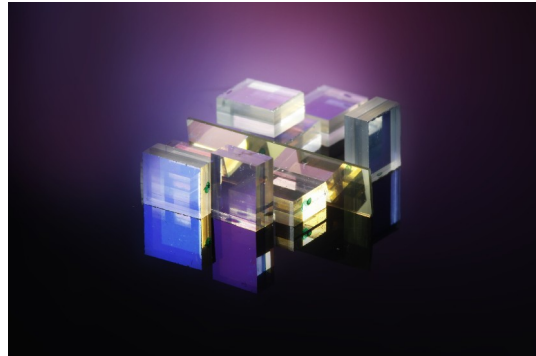
	Acquisition and Production Cost				
	Jan 1, 2009	Transfers	Additions	Disposals	Dec 31, 2009
	€	€	€	€	€
I. Intangible assets					
Patents and software	101,863.87	0.00	0.00	0.00	101,863.87
II. Tangible assets					
1. Improvements and operating equipment	365,985.64	0.00	0.00	0.00	365,985.64
2. Technical machinery and equipment	5,827,100.79	0.00	0.00	0.00	5,827,100.79
3. Other plant, operating, and office - equipment	788,520.94	1,691.86	5,875.43	4,650.51	791,437.72
4. CIP assets	39,102.73	-1,691.86	59,121.58	1,184.88	95,347.57
	7,020,710.10	0.00	64,997.01	5,835.39	7,079,871.72
	7,122,573.97	0.00	64,997.01	5,835.39	7,181,735.59

### 3. CODIXX – FINANCIAL STATEMENTS 2009

Depreciations				Net Book Value	
Jan 1, 2009	Additions	Disposals	Dec 31, 2009	Dec 31, 2009	Dec 31, 2008
€	€	€	€	€	€
101,269.99	470.98	0.00	101,740.97	122.90	593.88
264,354.94	21,534.39	0.00	285,889.33	80,096.31	101,630.70
3,501,983.71	345,626.78	0.00	3,847,610.49	1,979,490.30	2,325,117.08
523,816.16	44,997.17	4,650.51	564,162.82	227,274.90	264,704.78
0.00	0.00	0.00	0.00	95,347.57	39,102.73
4,290,154.81	412,158.34	4,650.51	4,697,662.64	2,382,209.08	2,730,555.29
4,391,424.80	412,629.32	4,650.51	4,799,403.61	2,382,331.98	2,731,149.17

## GLOSSARY

- Dichroism/ dichroistic** Derived from the Greek “dikhroos” (two-colored). Optical components which produce a two-colored effect are called dichroistic. Dichroistic color filters, for example, let blue light pass, whereas they reflect green and red light. Polarizers can also have dichroistic properties, transmitting or reflecting, for example, various colors selectively. Opposed to this color neutral filters (grey filters) do not own dichroistic properties. The colorPol®-polarizers display distinctly strong dichroistic properties.
- Infrared [IR]** Electromagnetic radiation with a wavelength ranging from 780 nm (red) to circa 1 mm is referred to as infrared range, infrared light, infrared radiation or also infrared.
- Colloid** In chemistry the term colloid is used to describe very small particles. Consequently, nanoparticles are also colloids.
- Contrast** Contrast is the ratio between the smallest and the biggest value. This correlates normally to the dynamic range. Regarding images one refers to a high contrast if the dynamic area is very wide, meaning the ratio of the dark image elements to the light image elements is very great. The human eye is not able to distinguish contrasts above 1000:1. In engineering contrasts up to 100.000.000:1 (108:1) are required. Since contrast is a ratio, the unit decibel (dB) is used, especially in telecommunications.
- Polarizer** Component used to filter electromagnetic waves depending on their polarization axis. Optical polarizing filters are classed by their physical principle of operation, their design as well as their mode of polarization. Various types are, for example: crystal polarizers, nano particle polarizers, dielectric film polarizers, foil polarizers or wire grid polarizers.
- Polarizers are important base elements in optics. Especially in modern optics, polarization plays an essential role, because it exists practically everywhere and because it can be used to gain information about material. Polarizers are the functional part in, for example, ellipsometer devices, optical isolators, polarimeter devices, Lyot-filters as well as LCDs.
- Transmission** The transmission  $\tau$  is the coefficient, which is defined by the ratio of the energy of the transmitted radiation  $I$  to the energy of the absorbed radiation  $I_0$ ; the definition is:  $\tau = \frac{I}{I_0}$ . The transmission always relates to the given component, since the transmission depends on the radiation length (the thicker the component of the same material, the lower the transmission). The following is always valid: Transmission  $\tau$  + Absorption  $\alpha$  + Reflection  $\rho = 1$ .
- The transmission also plays an important role for information transfer using fiber optic cables. The longer the fiber optic cable the worse the transmission and the lower is the intensity of the wanted signal. In order to create fiber optic cables as long as possible, certain spectral ranges are used, which are known for an especially high transmission of fiber. Also, it is taken care that the optical components on both ends of the fiber, which are used to inject or decouple the signals, have a minimal insertion loss.
- Ultraviolet [UV]** Generally electromagnetic radiation of the wavelength range under 390 nm is referred to as ultraviolet range, ultraviolet light, ultraviolet radiation or simply ultraviolet.
- Wavelength** The wavelength  $\lambda$  is used to represent the oscillating frequency of an electromagnetic wave in space. Since this wave propagates into a direction with velocity  $v$ , the electrical or magnetic field respectively oscillates with a fixed frequency, one can calculate the wavelength at a point in time  $t_0$  with  $\lambda = \frac{v}{f}$ . The wavelength describes the spacial distance of two zero-crossings of a sinus oscillation of the electrical or magnetic field respectively. Since the velocity of propagation  $v$  depends on the medium, the wavelength also depends on the medium. Generally, wavelength refers to the wavelength of an electromagnetic wave in a vacuum. In a vacuum the velocity of propagation  $v$  equals the speed of light  $c_0$ . Therefore the definition of wavelength is  $\lambda = \frac{c_0}{f}$ .



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